

%Version: Fri, 24 May 24 14:00:25 +0200

```
@inproceedings { AM08,
  author = { Afzal, Waqas and Mahmood, Adnan },
  title = { Design Review of Satellite Telemetry based on CCSDS standards
and Proposed Hardware Implementation of CanSat },
  booktitle = { International MultiConference of Engineers and Computer
Scientists, IMECS 2008 : 19 - 21 March, 2008, Regal Knowloon Hotel,
Knowloon, Hong Kong / Eds.: S. I. Ao ... },
  publisher = { IAENG },
  pages = { 1444-1447 },
  series = { Lecture notes in engineering and computer science },
  year = { 2008 },
  address = { Hong Kong },
  organization = { International MultiConference of Engineers and
Computer Scientists, Kowloon (Hong Kong), 2008-03-19 - 2008-03-21 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-197547 },
  cin = { 122810 / 120000 },
  url = {
http://www.iaeng.org/publication/IMECS2008/IMECS2008_pp1444-1447.pdf },
}
```

```
@inproceedings { AMA17,
  author = { Alrifaaee, Bassam and Maczijekowski, Janis and Abel, Dirk },
  title = { Sequential Convex Programming MPC for Dynamic Vehicle
Collision Avoidance },
  booktitle = { First Annual IEEE Conference on Control Technology and
Applications : Kohala Coast, Hawai'i, August 27-30, 2017 : CCTA 2017 / IEEE,
CSS, IEEE Robotics & Automation Society, SICE },
  publisher = { IEEE },
  pages = { 2202-2207 },
  year = { 2017 },
  address = { Piscataway, NJ },
  organization = { 1. Annual IEEE Conference on Control Technology and
Applications, Mauna Lani, HI (USA), 2017-08-27 - 2017-08-30 },
  doi = { 10.1109/CCTA.2017.8062778 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-09124 },
  cin = { 122810 / 416610 / 120000 },
  url = { http://publications.rwth-aachen.de/record/707229 },
}
```

```
Alr17,
  author = { Alrifaaee, Bassam },
  title = { MATLAB Simulation of Networked Model Predictive Control for
Vehicle Collision Avoidance },
  publisher = { Zenodo },
  year = { 2017 },
  doi = { 10.5281/zenodo.1252992 },
  typ = { PUB:(DE-HGF)32 },
```

```
reportid = { RWTH-2018-224565 },
cin = { 416610 / 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/724118 },
}

@inproceedings { AM18,
  author = { Alrifaae, Bassam and Maczijekowski, Janis },
  title = { Real-time Trajectory optimization for Autonomous Vehicle
Racing using Sequential Linearization },
  booktitle = { 2018 IEEE Intelligent Vehicles Symposium (IV) : 26-30
June 2018 / [sponsored by the IEEE Intelligent Transportation Systems
Society (ITSS)] },
  publisher = { IEEE },
  year = { 2018 },
  address = { Piscataway, NJ },
  organization = { 29. IEEE Intelligent Vehicles Symposium, Changshu
(Peoples R China), 2018-06-26 - 2018-06-30 },
  doi = { 10.1109/IVS.2018.8500634 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2018-229489 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/748563 },
}

@inproceedings { AdM+10,
  author = { Arens, Jutta and de Brouwer, Petra and Mager, Ilona and
Kopp, R{"u}dger and Walter, Marian and Stollenwerk, Andr{e} and Schmitz-Rode,
Thomas and Steinseifer, Ulrich },
  title = { A dynamic study on the hemolytic effect of negative pressure
on blood },
  booktitle = { ASAI0 journal },
  publisher = { Lippincott },
  pages = { 96-96 },
  volume = { 56 },
  number = { 2 },
  year = { 2010 },
  address = { Hagerstown, Md. },
  issn = { 0162-1432 },
  doi = { 10.1097/01.mat.0000369377.65122.a3 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-003576 },
  cin = { 122810 / 611010 / 120000 },
  url = { http://publications.rwth-aachen.de/record/165220 },
}

@phdthesis { Arm10,
  author = { Armoush, Ashraf },
  othercontributors = { Kowalewski, Stefan },
  title = { Design patterns for safety-critical embedded systems },
  publisher = { Publikationsserver der RWTH Aachen University },
  pages = { XIV, 181 S. : graph. Darst. },
```

```
    year = { 2010 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-114028 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/51773/files/3273.pdf
},
}

@inproceedings { ASK08,
    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    title = { A hybrid fault tolerance method for recovery block with a
weak acceptance test },
    booktitle = { Proceedings of the 5th International Conference on
Embedded and Ubiquitous Computing : EUC 2008 ; December 17–20, 2008,
Shanghai, China / Spons. by: IEEE Computer Society Technical Committee on
Scalable Computing (TCSC). - Vol. 1 },
    publisher = { IEEE Computer Society },
    pages = { 484-491 },
    year = { 2008 },
    address = { Los Alamitos, Calif. },
    organization = { 5. International Conference on Embedded and Ubiquitous
Computing, Shanghai (Peoples R China), 2008-12-17 - 2008-12-20 },
    doi = { 10.1109/EUC.2008.102 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-171798 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/98742 },
}

@inproceedings { ASK08a,
    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    title = { Effective pattern representation for safety critical embedded
systems },
    booktitle = { CSSE 2008 : International Conference on Computer Science
and Software Engineering ; Proceedings ; 12-14 December 2008 • Wuhan, Hubei,
China. - Vol. 4 },
    publisher = { IEEE Computer Society },
    pages = { 91-97 },
    year = { 2008 },
    address = { Los Alamitos, Calif. },
    organization = { International Conference on Computer Science and
Software Engineering, Wuhan, Hubei (Peoples R China), 2008-12-12 -
2008-12-14 },
    doi = { 10.1109/CSSE.2008.739 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-171799 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/98743 },
}
```

```
@inproceedings { ASK08b,  
  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },  
  title = { Recovery block with backup voting : a new pattern with  
extended representation for safety critical embedded systems },  
  booktitle = { 11th International Conference on Information Technology :  
ICIT 2008 ; Proceedings ; December 17–20, 2008, Bhubaneswar, India / Edited  
by B. S. Panda and Abhaya Nayak. Organized by Orissa Information Technology  
Society ... },  
  publisher = { IEEE Computer Society },  
  pages = { 232-237 },  
  year = { 2008 },  
  address = { Los Alamitos, Calif. },  
  organization = { 11. International Conference on Information  
Technology, Bhubaneswar (India), 2008-12-17 - 2008-12-20 },  
  doi = { 10.1109/ICIT.2008.60 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-171800 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/98744 },  
}  
  
@inproceedings { ABK09,  
  author = { Armoush, Ashraf and Beckschulze, Eva and Kowalewski, Stefan  
},  
  title = { Safety assessment of design patterns for safety-critical  
embedded systems },  
  booktitle = { 35th Euromicro Conference on Software Engineering and  
Advanced Applications : SEAA 2009 ; August 27-29, 2009 in Patras, Greece },  
  publisher = { IEEE },  
  pages = { 523-527 },  
  year = { 2009 },  
  address = { Piscataway, NJ },  
  organization = { 35. Euromicro Conference on Software Engineering and  
Advanced Applications, Patras (Greece), 2009-08-27 - 2009-08-29 },  
  doi = { 10.1109/SEAA.2009.12 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-172396 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/99430 },  
}  
  
@inproceedings { AK09,  
  author = { Armoush, Ashraf and Kowalewski, Stefan },  
  title = { Safety recommendations for safety-critical design patterns },  
  booktitle = { Proceedings of the International Workshop on the Design  
of Dependable Critical Systems 'Hardware, Software, and Human Factors in  
Dependable System Design': DDCS 2009 : September 15, 2009, Hamburg, Germany  
; in the framework of The 28th International Conference on Computer Safety,  
Reliability and Security SAFECOMP 2009 / Ed. by Achim Wagner, Automation  
Laboratory, Institute of Computer Engineering, University of Heidelberg ...  
},
```

```

    publisher = { Universit{"a"}t },
    pages = { 9-16 },
    year = { 2009 },
    address = { Heidelberg },
    organization = { International Workshop on the Design of Dependable
Critical Systems 'Hardware, Software, and Human Factors in Dependable System
Design', Hamburg (Germany), 2009-09-15 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-172522 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99563 },
}

```

```

@article { ASK09,
    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    title = { Design pattern representation for safety-critical embedded
systems },
    journal = { Journal of software engineering and applications : JSEA },
    publisher = { Scientific Research Publ. },
    pages = { 1-12 },
    volume = { 2 },
    number = { 1 },
    year = { 2009 },
    issn = { 1945-3116 },
    doi = { 10.4236/jsea.2009.21001 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-013185 },
    cin = { 122810 / 120000 },
    url = { http://www.scirp.org/journal/jsea },
}

```

```

@inproceedings { AFK+14,
    author = { Armoush, Ashraf and Franke, Dominik and Kalkov, Igor and
Kowalewski, Stefan },
    title = { An Approach for Using Mobile Devices In Industrial Safety-
Critical Embedded Systems },
    booktitle = { Mobile Computing, Applications, and Services : 5th
International Conference, MobiCase 2013, Paris, France, November 7-8, 2013,
Revised Selected Papers },
    publisher = { Springer },
    pages = { 294-297 },
    series = { Lecture Notes of the Institute for Computer Sciences,
Social-Informatics and Telecommunications Engineering },
    year = { 2014 },
    address = { Cham },
    organization = { Mobile Computing, Applications, and Services : 5.
International Conference, Paris (France), 2013-11-07 - 2013-11-08 },
    doi = { 10.1007/978-3-319-05452-0_27 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-203202 },
    cin = { 120000 / 122810 },
}

```

```
url = { http://publications.rwth-aachen.de/record/225590 },
}

@inproceedings { BK16,
  author = { Banila, Madalina and Kowalewski, Stefan },
  title = { Ein Ansatz zur automatisierten normgerechten Testplanung
f{"u"}r sicherheitskritische eingebettete Software im Automobilbereich },
  booktitle = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : EKA 2016 :
24.-25.05.2016, 14. Fachtagung mit Tutorium / Ulrich Jumar, Christian
Diedrich (Hrsg.) ; eine Kooperation von ifak (Otto von Guericke
Universit{"a"}t Magdeburg) },
  publisher = { Institut f{"u"}r Automation und Kommunikation e.V.
Magdeburg (An-Institut der Otto-von-Guericke-Universit{"a"}t Magdeburg) },
  pages = { 1-10 },
  year = { 2016 },
  address = { Magdeburg },
  organization = { 14. Fachtagung Entwurf komplexer
Automatisierungssysteme, Magdeburg (Germany), 2016-05-24 - 2016-05-25 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-05172 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/690534 },
}

@inproceedings { BKN12,
  author = { Barakat, Kamal and Kowalewski, Stefan and Noll, Thomas },
  title = { A Native Approach to Modeling Timed Behavior in the Pi-
Calculus },
  booktitle = { IEEE Sixth International Symposium on Theoretical Aspects
of Software Engineering : Beijing, China, 4 – 6 July 2012 ; proceedings /
Edited by Tiziana Margaria, Zongyan Qiu, and Hongli Yang },
  publisher = { IEEE },
  pages = { 253-256 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { IEEE Sixth International Symposium on Theoretical
Aspects of Software Engineering, Beijing (Peoples R China), 04-07-2012 -
06-07-2012 },
  doi = { 10.1109/TASE.2012.27 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199583 },
  cin = { 122810 / 121310 / 120000 },
  url = { http://publications.rwth-aachen.de/record/129606 },
}

@inproceedings { BK12,
  author = { Barakat, Kamal and Kowalewski, Stefan },
  title = { Modeling and Verification of Network Protocol Specs using
Timed Pi-Calculus },
  booktitle = { 2012 IV International Congress on Ultra Modern
```

```

Telecommunications and Control Systems (ICUMT 2012) : St. Petersburg,
Russia, 3 - 5 October 2012 ; [including workshops] / IEEE },
  publisher = { IEEE },
  pages = { 884-891 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { 2012 IV International Congress on Ultra Modern
Telecommunications and Control Systems, St. Petersburg (Russia), 2012-10-03
- 2012-10-05 },
  doi = { 10.1109/ICUMT.2012.6459786 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-200920 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/207475 },
}

```

```

@techreport { Bar11,
  author = { Barakat, Kamal },
  title = { Introducing Timers to Pi-Calculus },
  pages = { 31 },
  year = { 2011 },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-CONV-236331 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752307 },
}

```

```

@inproceedings { BOP+22,
  author = { Becker, Sabine and Olivier, Lena and Pfannschmidt, Valerie
and Buglowski, Mateusz and H{"u"}tten, Matthias and Wienhold, Marie and
Orlikowsky, Thorsten and Stollenwerk, Andr{e} and Schoberer, Mark },
  title = { Closed-Loop Kontrolle des endtidalen CO2 im Fr{"u"}hgeborenen
L{"a"}mmer-Modell },
  booktitle = { Abstracts 48. Jahrestagung der Gesellschaft f{"u"}r
Neonatologie und P{"a"}diatrische Intensivmedizin / Gesellschaft f{"u"}r
Neonatologie und P{"a"}diatrische Intensivmedizin e. V = 1, 1, 1, Jena :
Conventus Congressmanagement & Marketing GmbH, 2022, },
  publisher = { Conventus Congressmanagement & Marketing GmbH },
  pages = { 92 },
  year = { 2022 },
  address = { Jena },
  organization = { 48. Jahrestagung der Gesellschaft f{"u"}r Neonatologie
und P{"a"}diatrische Intensivmedizin / Gesellschaft f{"u"}r Neonatologie und
P{"a"}diatrische Intensivmedizin e. V. },
  typ = { PUB:(DE-HGF)1 },
  reportid = { RWTH-2024-02440 },
  cin = { 537500-5 ; 537500-2 ; 933410 / 122810 / 120000 },
  url = {
http://nbn-resolving.org/urn:nbn:de:101:1-2022050914325390522965 },
  illkey = { BMBF 13GW0292C - Innovatives Neonatologiebeatmungsger{"a"}t
mit adaptiver Anwenderunterst{"u"}tzung (NANNI) - Teilvorhaben: Erforschung

```

```
neuer Modelle zur Diagnose von Fehlerzust{\a}nden (BMBF-13GW0292C) },
}
```

```
@inproceedings { BOB+22,
  author = { Becker, Sabine and Ophelders, Daan and Buglowski, Mateusz
and Orlikowsky, Thorsten and Schoberer, Mark and H{\u}tten, Matthias },
  title = { Prospektive Beurteilung beatmungsassoziierter Komplikationen
im translationalen ModellSabi },
  booktitle = { Abstracts 48. Jahrestagung der Gesellschaft f{\u}r
Neonatologie und P{\a}diatrische Intensivmedizin / Gesellschaft f{\u}r
Neonatologie und P{\a}diatrische Intensivmedizin e. V. },
  pages = { 251 },
  year = { 2022 },
  organization = { 48. Jahrestagung der Gesellschaft f{\u}r Neonatologie
und P{\a}diatrische Intensivmedizin / Gesellschaft f{\u}r Neonatologie und
P{\a}diatrische Intensivmedizin e. V. },
  typ = { PUB:(DE-HGF)1 },
  reportid = { RWTH-2024-02443 },
  cin = { 122810537500-5 ; 537500-2 ; 933410 / 120000 },
  url = { https://d-nb.info/1257110756/34 },
  illkey = { BMBF 13GW0292C - Innovatives Neonatologiebeatmungsger{\a}t
mit adaptiver Anwenderunterst{\u}tzung (NANNI) - Teilvorhaben: Erforschung
neuer Modelle zur Diagnose von Fehlerzust{\a}nden (BMBF-13GW0292C) },
}
```

```
@inbook { BKK+08,
  author = { Beckers, J{\o}rg and Kl{\u}nder, Daniel and Kowalewski,
Stefan and Schlich, Bastian },
  title = { Direct support for model checking abstract state machines by
utilizing simulation },
  booktitle = { Abstract state machines, B and Z : first international
conference, ABZ 2008, London, UK, September 16-18, 2008 ; proceedings / Egon
B{\o}rger ... (eds.) },
  publisher = { Springer },
  pages = { 112-124 },
  volume = { 5238 },
  series = { Lecture Notes in Computer Science },
  year = { 2008 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-540-87603-8_10 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-095396 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/83460 },
}
```

```
@inproceedings { BSS+08,
  author = { Beckschulze, Eva and Salewski, Falk and Siegbert, Thomas and
Kowalewski, Stefan },
  title = { Fault handling approaches on dual-core microcontrollers in
safety-critical automotive applications },
```

```
booktitle = { Leveraging applications of formal methods, verification
and validation : third international symposium, ISoLA 2008, Porto Sani,
Greece, October 13 - 15, 2008 ; proceedings / Tiziana Margaria ... (ed.) },
publisher = { Springer },
pages = { 82-92 },
series = { Communications in computer and information science },
year = { 2008 },
address = { Berlin [u.a] },
organization = { Leveraging applications of formal methods,
verification and validation : 3. international symposium, Porto Sani
(Greece), 2008-10-13 - 2008-10-15 },
doi = { 10.1007/978-3-540-88479-8_7 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-171611 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/98522 },
}
```

```
@inproceedings { BSK09,
author = { Beckschulze, Eva and Salewski, Falk and Kowalewski, Stefan
},
title = { A Comparison of Dual-Core Approaches for Safety-Critical
Automotive Applications },
booktitle = { Safety-critical systems, 2009 : [held during the SAE 2009
world congress, held April 20 - 23, 2009 in Detroit, Michigan, USA] / SAE
International },
publisher = { SAE Intern. },
pages = { 209-216 },
series = { SAE-SP },
year = { 2009 },
address = { Warrendale, Pa. },
organization = { Safety-critical systems, Detroit (USA), 2009-04-20 -
2009-04-23 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-191094 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/120032 },
}
```

```
@inproceedings { BBS+11,
author = { Beckschulze, Eva and Brauer, Jörg and Stollenwerk, André
and Kowalewski, Stefan },
title = { Analyzing Embedded Systems Code for Mixed-Critical Systems
Using Hybrid Memory Representations },
booktitle = { 2011 14th IEEE International Symposium on
Object/Component/Service-Oriented Real-Time Distributed Computing workshops
(ISORCW) : 28 - 31 March 2011, Newport Beach, California, USA ; proceedings
},
publisher = { IEEE },
pages = { 33-40 },
year = { 2011 },
}
```

```
    address = { Piscataway, NJ },
    organization = { 14. IEEE International Symposium on
Object/Component/Service-Oriented Real-Time Distributed Computing, Newport
Beach, CA (USA), 2011-03-28 - 2011-08-31 },
    doi = { 10.1109/ISORCW.2011.40 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-194737 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/124002 },
}

@inproceedings { BBK12,
    author = { Beckschulze, Eva and Biallas, Sebastian and Kowalewski,
Stefan },
    title = { Static Analysis of Lockless Microcontroller C Programs },
    booktitle = { Proceedings Seventh Conference on Systems Software
Verification (SSV 2012) : Sydney, Australia, 28-30 November 2012 / Franck
Cassez, Ralf Huuck, Gerwin Klein and Bastian Schlich },
    pages = { 103-114 },
    series = { Electronic proceedings in theoretical computer science :
EPTCS },
    year = { 2012 },
    address = { Sydney, Australia },
    organization = { 7. Conference on Systems Software Verification, Sydney
(Australia), 2012-11-28 - 2012-11-30 },
    doi = { 10.4204/EPTCS.102.10 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-195461 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/124829 },
}

@article { BBK12a,
    author = { Beckschulze, Eva and Brauer, J{"o}rg and Kowalewski, Stefan
},
    title = { Access-Based Localization for Octagons },
    journal = { Electronic notes in theoretical computer science : ENTCS },
    publisher = { Elsevier Science },
    pages = { 29-40 },
    volume = { 287 },
    year = { 2012 },
    address = { Amsterdam [u.a.] },
    issn = { 1571-0661 },
    organization = { 4. International Workshop on Numerical and Symbolic
Abstract Domains (France), 10-09-2012 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-043099 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/165238 },
}
```

```
@techreport { BBD+11,
  author = { Beckschulze, Eva and Boymanns, David and D{\u}lks, Ramon
and Gatterdam, Thomas and Kowalewski, Stefan and Lang, M. and Salewski, Falk
and Siegbert, Thomas },
  title = { Zuverlaessigkeit von automotive embedded Systems },
  volume = { 231 },
  series = { FAT-Schriftenreihe },
  year = { 2011 },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-CONV-236311 },
  cin = { 122810 / 120000 },
  url = { https://d-nb.info/1053546777/34 },
}
```

```
@inbook { BBZ+23,
  author = { Behery, Mohamed Anwar Abdellatif and Brauner, Philipp and
Zhou, Hans Aoyang and Uysal, Merih Seran and Samsonov, Vladimir and
Bellgardt, Martin and Brillowski, Florian Sascha and Brockhoff, Tobias and
Farhang Ghahfarokhi, Anahita and Gleim, Lars Christoph and Gori{\ss}en, Leon
Michel and Grochowski, Marco and Henn, Thomas and Iacomini, Elisa and
Kaster, Thomas and Koren, István and Liebenberg, Martin Roland and Reinsch,
Leon Niwes and Tirpitz, Liam and Trinh, Minh and Posada Moreno, Andres
Felipe and Liehner, Gian Luca Valentin and Schemmer, Thomas and Vervier,
Luisa Sophie and V{\o}lker, Marcus and Walderich, Philipp and Zhang, Song
and Brecher, Christian and Schmitt, Robert H. and Decker, Stefan Josef and
Gries, Thomas and H{\a}fner, Constantin Leon and Herty, Michael and Jarke,
Matthias and Kowalewski, Stefan and Kuhlen, Torsten and Schleifenbaum,
Johannes Henrich and Trimpe, Johann Sebastian and van der Aalst, Wil M. P.
and Ziefle, Martina and Lakemeyer, Gerhard },
  title = { Actionable Artificial Intelligence for the Future of
Production },
  booktitle = { Internet of production : fundamentals, applications and
proceedings / editors: Christian Brecher, G{\u}nther Schuh, Wil van der
Aalst, Matthias Jarke, Frank T. Piller, Melanie Padberg },
  publisher = { Springer International Publishing },
  pages = { 1-46 },
  series = { Interdisciplinary Excellence Accelerator Series : IDEAS },
  year = { 2023 },
  address = { Cham },
  doi = { 10.18154/RWTH-2023-05268 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2023-05268 },
  cin = { 735410 / 080013 / 080067 / 417510 / 421510 / 053300 / 121810 /
122810 / 111710 / 422610 / 053100 / 053200 / 419110 / 418710 / 418020 /
122510 / 418910 / 417200 / 124620 / 110000 / 120000 / 022000 / 111400 /
114620 / 121920 / 124510 / 417310 },
  url = {
http://publications.rwth-aachen.de/record/958415/files/958415.pdf },
  illkey = { WS-A.III - Functional Perspective (X080067-WS-A.III) },
}
```

```
@inproceedings { BKC+09,  
  author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan and Chávez  
Grunewald, Martin Guillermo and Abel, Dirk },  
  title = { Safety assessment of networked vehicle platoon controllers :  
practical experiences with available tools },  
  booktitle = { ADHS'09: 3rd IFAC Conference on Analysis and Design of  
Hybrid : September 16, 17 - 18, University of Zaragoza, Spain / Aragón  
Institute for Engineering Research },  
  publisher = { University of Zaragoza },  
  year = { 2009 },  
  address = { Zaragoza, Spain },  
  organization = { 3. IFAC Conference on Analysis and Design of Hybrid,  
Zaragoza (Spain), 2009-09-16 - 2009-09-18 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-172519 },  
  cin = { 122810 / 416610 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/99560 },  
}
```

```
@inproceedings { BMH+11,  
  author = { Ben Makhlouf, Ibtissem and Maschuw, Jan P. and H{"a}nsch,  
Paul and Diab, Hilal and Kowalewski, Stefan and Abel, Dirk },  
  title = { Safety Verification of a Cooperative Vehicle Platoon  
withUncertain Inputs Using Zonotopes },  
  booktitle = { Proceedings of the 18th IFAC World Congress, 2011 :  
August 28 - September 2, 2011, Università Cattolica del Sacro Cuore, Milano  
Italy / Ed.: Sergio Bittanti ... },  
  publisher = { Curran },  
  pages = { 9769-9774 },  
  series = { IFAC-PapersOnLine },  
  year = { 2011 },  
  address = { Milano, Italy },  
  organization = { 18. IFAC World Congress, Milano (Italy), 2011-08-28 -  
2011-09-02 },  
  doi = { 10.3182/20110828-6-IT-1002.02165 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-173769 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/100991 },  
}
```

```
@inproceedings { BK06,  
  author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },  
  title = { An evaluation of two recent reachability analysis tools for  
hybrid systems },  
  booktitle = { Preprints / ADHS '06, 2nd IFAC Conference on Analysis and  
Design of Hybrid Systems : Alghero, Italy, June 7 - 9, 2006 / IFAC,  
International Federation of Automatic Control; DIEEE, Dipartimento di  
Ingegneria Elettrica ed Elettronica, Università di Cagliari. Ed.: C. G.  
Cassandras ... },  
  pages = { 377-382 },
```

```
    year = { 2006 },
    address = { Alghero },
    organization = { 2. IFAC Conference on Analysis and Design of Hybrid
Systems, Alghero (Italy), 2006-06-07 - 2006-06-09 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-188518 },
    cin = { 122810 / 120000 },
    url = {
http://www.ifac-papersonline.net/cgi-bin/links/page.cgi?g=Detailed/30190.htm
l;d=1 },
}
```

```
@inproceedings { BDK12,
    author = { Ben Makhlouf, Ibtissem and Diab, Hilal and Kowalewski,
Stefan },
    title = { Safety Verification of a Controlled Cooperative Platoon Under
Loss of Communication Using Zonotopes },
    booktitle = { Inproceeding of the 4th IFAC Conference on Analysis and
Design of Hybrid Systems (ADHS 12), Eindhoven, NL },
    pages = { 333-338 },
    year = { 2012 },
    organization = { 4. IFAC Conference on Analysis and Design of Hybrid
Systems, Eindhoven (Netherlands) },
    doi = { 10.3182/20120606-3-NL-3011.00053 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-200116 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/197942 },
}
```

```
@inproceedings { BHK13,
    author = { Ben Makhlouf, Ibtissem and H{"a"}nsch, Paul and Kowalewski,
Stefan },
    title = { Comparison of Reachability Methods for Uncertain Linear Time-
Invariant Systems },
    booktitle = { Proceedings of the 12th European Control Conference (ECC)
: July 17 -19, 2013, Zuerich, Switzerland },
    publisher = { Omnipress },
    pages = { 1101-1106 },
    year = { 2013 },
    address = { Z{"u"}rich },
    organization = { 12. European Control Conference (ECC), Zuerich
(Switzerland), 2013-07-17 - 2013-07-19 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-202859 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/225184 },
}
```

```
@inproceedings { BDK13,
    author = { Ben Makhlouf, Ibtissem and Diab, Hilal and Kowalewski,
```

```
Stefan },
  title = { Reachability Analysis for Managing Platoons at Intersections
},
  booktitle = { 2013 21st Mediterranean Conference on Control &
Automation (MED 2013) : [Platanias], Chania, Crete, Greece, 25 - 28 June
2013 ; [conference proceedings] / [sponsor: Mediterranean Control
Association. Technical co-sponsors: IEEE Control Systems Society; IEEE
Robotics & Automation Society ... Ed. by Panos Antsaklis ...]. - 1-2 },
  publisher = { IEEE },
  pages = { 1141-1147 },
  year = { 2013 },
  address = { Piscataway, NJ },
  organization = { 21. Mediterranean Conference on Control & Automation,
Chania, Crete (Greece), 2013-06-25 - 2013-06-28 },
  doi = { 10.1109/MED.2013.6608864 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-204343 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226951 },
}

@inproceedings { BK14,
  author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },
  title = { Networked Cooperative Platoon of Vehicles for Testing Methods
and Verification Tools },
  booktitle = { ARCH14 CPSWeek 2014 : Berlin, Germany, April 14 - 17,
2014 },
  pages = { 6 Seiten },
  year = { 2014 },
  address = { [s.l.] },
  organization = { ARCH14 CPSWeek 2014, Berlin (Germany),
2014-04-14-2014-04-17 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-205606 },
  cin = { 120000 / 122810 },
  url = { http://cps-vo.org/node/12115 },
}

@article { BGK15,
  author = { Ben Makhlouf, Ibtissem and Gan, Jonathan and Kowalewski,
Stefan },
  title = { A Study on Solving Guard and Invariant Set Intersection in
Zonotope-based Reachability of Linear Hybrid Systems },
  journal = { IFAC-PapersOnLine },
  publisher = { IFAC },
  pages = { 13-20 },
  volume = { 48 },
  number = { 27 },
  year = { 2015 },
  address = { Laxenburg },
  issn = { 2405-8963 },
```

```

organization = { Analysis and Design of Hybrid Systems, Atlanta, GA
(USA), 2015-10-14 - 2015-10-16 },
doi = { 10.1016/j.ifacol.2015.11.146 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-2015-07851 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/565384 },
}

```

```

@phdthesis { Ben16,
author = { Ben Makhoulouf, Ibtissem },
othercontributors = { Kowalewski, Stefan and Frehse, Goran },
title = { Comparative evaluation and improvement of computational
approaches to reachability analysis of linear hybrid systems },
publisher = { Shaker Verlag },
school = { RWTH Aachen },
pages = { viii, 221 Seiten : Illustrationen, Diagramme },
series = { Aachener Informatik-Berichte },
year = { 2016 },
address = { Aachen },
isbn = { 978-3-8440-4376-1 },
typ = { PUB:(DE-HGF)3 },
reportid = { RWTH-2016-02174 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/571624/files/571624.pdf },
}

```

```

@inproceedings { BK15,
author = { Ben Makhoulouf, Ibtissem and Kowalewski, Stefan },
title = { Networked Cooperative Platoon of Vehicles for Testing Methods
and Verification Tools },
booktitle = { [ARCH14-15. 1st and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems / Goran Frehse and Matthias
Althoff (editors)] },
publisher = { EasyChair },
pages = { 37-42 },
series = { EPiC Series in Computer Science },
year = { 2015 },
organization = { 1. and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-207903 },
cin = { 122810 / 120000 },
url = {
http://www.easychair.org/publications/download/Networked_Cooperative_Platoon
_of_Vehicles_for_Testing_Methods_and_Verification_Tools },
}

```

```

@inproceedings { BK15a,
author = { Ben Makhoulouf, Ibtissem and Kowalewski, Stefan },

```

```

    title = { Optimizing Safe Control of a Networked Platoon of Trucks
Using Reachability },
    booktitle = { [ARCH14-15. 1st and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems / Goran Frehse and Matthias
Althoff (editors)] },
    publisher = { EasyChair },
    pages = { 169-179 },
    series = { EPiC Series in Computing },
    year = { 2015 },
    organization = { 1. and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207910 },
    cin = { 122810 / 120000 },
    url = { http://www.easychair.org/images/pdf.gif },
}

```

```

@inproceedings { BHK17,
    author = { Ben Makhlouf, Ibtissem and Hansen, Norman and Kowalewski,
Stefan },
    title = { HyReach: A Reachability Tool for Linear Hybrid Systems Based
on Support Functions },
    booktitle = { ARCH16. 3rd International Workshop on Applied
Verification for Continuous and Hybrid Systems / Editors: Goran Frehse and
Matthias Althoff },
    pages = { 68-79 },
    series = { EPiC Series in Computing },
    year = { 2017 },
    organization = { 3. International Workshop on Applied Verification for
Continuous and Hybrid Systems, Vienna (Austria), 2016-04-12 - 2016-04-12 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-213474 },
    cin = { 122810 / 120000 },
    url = { https://easychair.org/publications/paper/334327 },
}

```

```

@article { BWH+23,
    author = { Berg, Frederik Julius and Wiartalla, Marc Oliver and
H{"u"}llmann, Moritz and Derks, Andreas and Kowalewski, Stefan and
Stollenwerk, Andr{e} },
    title = { ASMO: a decentralized and verifiable interoperability
platform in intensive care },
    journal = { Proceedings on automation in medical engineering },
    publisher = { Infinite Science GmbH },
    pages = { 2 Seiten },
    volume = { 2 },
    number = { 1 },
    year = { 2023 },
    address = { L{"u"}beck },
    organization = { 16. Interdisziplin{a}res Symposium AUTOMED -
Automatisierungstechnische Verfahren f{"u"}r die Medizintechnik, Gie{\ss}en

```

```
(Germany), 2023-03-30 - 2023-03-31 },  
  doi = { 10.18154/RWTH-2023-03716 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2023-03716 },  
  cin = { 122810 / 120000 },  
  url = { https://doi.org/10.18416/AUTOMED.2023 },  
}
```

```
@article { BKK07,  
  author = { Bettenhausen, Kurt D. and Kowalewski, Stefan and Kugi,  
Andreas },  
  title = { Significance of the automation engineering },  
  journal = { Automatisierungstechnik : at },  
  publisher = { Oldenbourg },  
  pages = { 269-271 },  
  volume = { 55 },  
  number = { 5 },  
  year = { 2007 },  
  address = { M{"u"}nchen },  
  issn = { 0178-2312 },  
  doi = { 10.1524/auto.2007.55.5.269 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-CONV-070610 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/195234 },  
}
```

```
@inproceedings { BBK12b,  
  author = { Biallas, Sebastian and Brauer, J{"o"}rg and Kowalewski,  
Stefan },  
  title = { Arcade.PLC : a Verification Platform for Programmable Logic  
Controllers },  
  booktitle = { 2012 proceedings of the 27th IEEE/ACM International  
Conference on Automated Software Engineering (ASE 2012) : Essen, Germany, 3  
- 7 September 2012 },  
  publisher = { IEEE },  
  pages = { 338-341 },  
  year = { 2012 },  
  address = { Piscataway, NJ },  
  organization = { 27. IEEE/ACM International Conference on Automated  
Software Engineering, Essen (Germany), 2012-09-03 - 2012-09-07 },  
  doi = { 10.1145/2351676.2351741 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-170936 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/97761 },  
}
```

```
@inproceedings { BKS11,  
  author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,  
Bastian },
```

```
title = { Leistungsf{\a}hige Verifikation von industriellen SPS-
Programmen mittels Model-Checking und statischer Analyse },
booktitle = { 'Zukunft verantwortungsvoll gestalten' : Automation 2011
; der 12. Branchentreff der Mess- und Automatisierungstechnik ; Kongress
Baden-Baden, 28. und 29. Juni 2011 / VDI/VDE-Gesellschaft Mess- und
Automatisierungstechnik. [Kongressleiter: Peter Adolphs ...] },
publisher = { VDI-Verl. },
pages = { 67-72 },
series = { VDI-Berichte },
year = { 2011 },
address = { D{\u}sseldorf },
organization = { 12. Branchentreff der Mess- und
Automatisierungstechnik, Baden-Baden (Germany), 2011-06-28 - 2011-06-29 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-189475 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/118212 },
}

@inproceedings { BBK10,
author = { Biallas, Sebastian and Brauer, J{\o}rg and Kowalewski,
Stefan },
title = { Counterexample-Guided Abstraction Refinement for PLCs },
booktitle = { 5th International Workshop on Systems Software
Verification (SSV 2010), Vancouver, Canada },
year = { 2010 },
organization = { 5. International Workshop on Systems Software
Verification, Vancouver (Canada) },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-189856 },
cin = { 122810 / 120000 },
url = {
http://www.embedded.rwth-aachen.de/lib/exe/fetch.php?media=bib:bbk10.pdf },
}

@inproceedings { BFK+10,
author = { Biallas, Sebastian and Frey, Georg and Kowalewski, Stefan
and Schlich, Bastian and Soliman, Doaa },
title = { Formale Verifikation von Sicherheits-Funktionsbausteinen der
PLCopen auf Modell- und Code-Ebene },
booktitle = { Entwurf komplexer Automatisierungssysteme : EKA 2010 ;
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 11. Fachtagung
mit Tutorium, 25. bis 27. Mai 2010 in Magdeburg, Denkfabrik im
Wissenschaftshafen / ifak, Institut f{\u}r Automation und Kommunikation
e.V., Magdeburg; Otto-von-Guericke-Universit{\a}t Magdeburg, Institut
f{\u}r Automatisierungstechnik. [Hrsg.: Ulrich Jumar, Eckehard Schnieder,
Christian Diedrich] },
publisher = { ifak },
pages = { 49-57 },
year = { 2010 },
address = { Magdeburg },
```

```
organization = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen, Magdeburg
(Germany), 2010-05-25 - 2010-05-27 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-190099 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/118924 },
}

@inproceedings { BBG+10,
author = { Biallas, Sebastian and Brauer, J{"o}rg and G{"u}ckel,
Dominique and Kowalewski, Stefan },
title = { On-The-Fly Path Reduction },
booktitle = { 4th International Workshop on Harnessing Theories for
Tool Support in Software : TTSS'10 ; East China Normal University, Shanghai,
China, November 15, 2010 ; Preliminary Proceedings / Eds.: Min Zhang and
Volker Stolz },
publisher = { UNU-IIST },
pages = { 108-122 },
series = { UNU-IIST Report },
year = { 2010 },
address = { Macau },
organization = { 4. International Workshop on Harnessing Theories for
Tool Support in Software, Shanghai (Peoples R China), 2010-11-15 -
2010-11-15 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-190152 },
cin = { 122810 / 120000 },
url = { http://i.unu.edu/unu/u/publication/000/001/286/report444.pdf },
}

@inproceedings { BKS12,
author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,
Bastian },
title = { Automatische Wertebereichsanalyse von SPS-Programmen },
booktitle = { Automation 2012 : der 13. Branchentreff der Mess- und
Automatisierungstechnik / VDI/VDE-Gesellschaft Mess- und
Automatisierungstechnik ; Kongress 'Automation 2012' ; 13 (Baden-Baden) ;
2011.06.13-14Branchentreff der Mess- und Automatisierungstechnik },
publisher = { VDI-Verl. },
pages = { 79-83 },
series = { VDI-Berichte },
year = { 2012 },
address = { D{"u}sseldorf },
organization = { 13. Branchentreff der Mess- und
Automatisierungstechnik, Baden-Baden (Germany), 2011-06-13 - 2011-06-14 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-191631 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/120638 },
}
```

```
@inproceedings { BBK11,  
  author = { Biallas, Sebastian and Brauer, Jörg and Kowalewski,  
Stefan },  
  title = { SAT-Based Abstraction Refinement for Programmable Logic  
Controllers },  
  booktitle = { 3rd International Workshop on Dependable Control of  
Discrete Systems 2011, DCDS 2011, Saarbrücken, Germany, 15th-17th June  
2011 },  
  publisher = { IEEE },  
  pages = { 96-101 },  
  year = { 2011 },  
  address = { Piscataway, NJ },  
  organization = { 3. International Workshop on Dependable Control of  
Discrete Systems 2011, Saarbrücken (Germany), 2011-06-15 - 2011-06-17 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-194508 },  
  cin = { 122810 / 120000 },  
  url = { http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=05970325 },  
}
```

```
@inproceedings { BBK+11,  
  author = { Biallas, Sebastian and Brauer, Jörg and Kowalewski,  
Stefan and Schlich, Bastian },  
  title = { Automatically Deriving Symbolic Invariants for PLC Programs  
Written in IL },  
  booktitle = { Formal methods for automation and safety in railway and  
automotive systems : FORMS/FORMAT 2010 ; [8th symposium ; proceedings] /  
Eckehard Schnieder; Géza Tarnai, eds. },  
  publisher = { Springer },  
  pages = { 237-245 },  
  year = { 2011 },  
  address = { Heidelberg [u.a.] },  
  organization = { Formal methods for automation and safety in railway  
and automotive systems, 2010 },  
  doi = { 10.1007/978-3-642-14261-1 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-196797 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/126461 },  
}
```

```
@article { BKS12a,  
  author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,  
Bastian },  
  title = { Automatische Wertebereichsanalyse -- Formale Verifikation  
für SPS-Programme },  
  journal = { Automatisierungstechnische Praxis : atp },  
  publisher = { Oldenbourg Industrieverl. },  
  pages = { 68-74 },  
  volume = { 54 },  
  number = { 7/8 },
```

```
    year = { 2012 },
    address = { M{"u"}nchen },
    issn = { 0178-2320 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-015025 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/133988 },
}

@inproceedings { BBK13,
    author = { Biallas, Sebastian and Bohlender, Dimitri and Kowalewski,
Stefan },
    title = { Boolean and Modular Abstractions for Programmable Logic
Controllers },
    booktitle = { Dependable Control of Discrete Systems : DCDS13. - Vol.
4, P. 1 },
    publisher = { IFAC },
    pages = { 97-102 },
    year = { 2013 },
    address = { Laxenburg },
    organization = { Dependable Control of Discrete Systems },
    doi = { 10.3182/20130904-3-UK-4041.00011 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-203363 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/225788 },
}

@inproceedings { BGK13,
    author = { Biallas, Sebastian and Giacobbe, Mirco and Kowalewski,
Stefan },
    title = { Predicate Abstraction for Programmable Logic Controllers },
    booktitle = { Formal Methods for Industrial Critical Systems : 18th
International Workshop, FMICS 2013, Madrid, Spain, September 23-24, 2013.
Proceedings / edited by Charles Pecheur, Michael Dierkes },
    publisher = { Springer Berlin Heidelberg ; Imprint: Springer },
    pages = { 123-138 },
    series = { Lecture notes in computer science },
    year = { 2013 },
    address = { Berlin, Heidelberg ; s.l. },
    organization = { Formal Methods for Industrial Critical Systems : 18.
International Workshop, Madrid (Spain), 2013-09-23 - 2013-09-24 },
    doi = { 10.1007/978-3-642-41010-9_9 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-203367 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/225793 },
}

@inproceedings { BKK+13,
    author = { Biallas, Sebastian and Kamin, Volker and Kowalewski, Stefan
```

```
and Schlich, Bastian and Sehestedt, Stephan and Stattelmann, Stefan },
  title = { Verifikation von sicherheitsgerichteten SPS-Programmen mit
Hilfe von Safety-Automaten },
  booktitle = { Automation 2013 : 14. Branchentreff der Mess- und
Automatisierungstechnik ; Kongresshaus Baden-Baden, 25. und 26. Juni 2013 /
VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik },
  publisher = { VDI-Verl. },
  pages = { 75-79 },
  series = { VDI-Berichte },
  year = { 2013 },
  address = { D{"u}sseldorf },
  organization = { 14. Branchentreff der Mess- und
Automatisierungstechnik (Germany), 2013-06-25 - 2013-06-26 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203699 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226206 },
}
```

```
@inproceedings { BKS+14,
  author = { Biallas, Sebastian and Kowalewski, Stefan and Stattelmann,
Stefan and Schlich, Bastian },
  title = { Efficient Handling of States in Abstract Interpretation of
Industrial Programmable Logic Controller Code },
  booktitle = { Discrete Event Systems : [Proc. Proceedings of the 12th
International Workshop on Discrete Event Systems, Cachan, France, 2014] /
Conference Editor: Lesage, Jean-Jacques, Faure, Jean-Marc, Cury, Jose E. R.,
Lennartson, Bengt },
  publisher = { IFAC },
  pages = { 400-405 },
  year = { 2014 },
  address = { Cachan, France },
  organization = { Discrete Event Systems : [12th International Workshop
on Discrete Event Systems], Cachan (France), 2014-05-14 - 2014-05-16 },
  doi = { 10.3182/20140514-3-FR-4046.00065 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-205968 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/443854 },
}
```

```
@article { BFS+15,
  author = { Biallas, Sebastian and Friedrich, Nico and Simon, Hendrik
and Kowalewski, Stefan },
  title = { Automatic Error Cause Localization of Faulty PLC Programs },
  journal = { IFAC-PapersOnLine },
  publisher = { IFAC },
  pages = { 79-84 },
  volume = { 48 },
  number = { 7 },
  year = { 2015 },
```

```
    address = { Laxenburg },
    issn = { 2405-8963 },
    organization = { 5. IFAC International Workshop on Dependable Control
of Discrete Systems, Cancun (Mexico), 2015-05-27 - 2015-05-29 },
    doi = { 10.1016/j.ifacol.2015.06.476 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2016-03746 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/573801 },
}

@inproceedings { BSK+15,
    author = { Biallas, Sebastian and Simon, Hendrik and Kowalewski, Stefan
and Hauck-Stattelmann, Stefan and Schlich, Bastian },
    title = { Automatische Testfallgenerierung f{"u"}r SPS-Programme
mittels Zeilen{"u"}berdeckung },
    booktitle = { Automation 2015 : 16. Branchentreff der Mess- und
Automatisierungstechnik, 11. und 12. Juni 2015, Baden-Baden / VDI/VDE-
Gesellschaft Mess- und Automatisierungstechnik },
    publisher = { VDI-Verl. },
    pages = { 95-106 },
    series = { VDI-Berichte },
    year = { 2015 },
    address = { D{"u"}sseldorf },
    organization = { AUTOMATION 2015, Baden Baden (Germany), 2015-06-11 -
2015-06-12 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207912 },
    cin = { 122810 / 120000 },
    url = { http://publications.embedded.rwth-aachen.de/file/5r },
}

@phdthesis { Bia16,
    author = { Biallas, Sebastian },
    othercontributors = { Kowalewski, Stefan and Fay, Alexander },
    title = { Verification of programmable logic controller code using
model checking and static analysis },
    publisher = { Shaker Verlag },
    school = { RWTH Aachen University },
    pages = { 1 Online-Ressource (x, 153 Seiten) : Illustrationen,
Diagramme },
    series = { Aachener Informatik Berichte },
    year = { 2016 },
    address = { Aachen },
    isbn = { 978-3-8440-4711-0 },
    typ = { PUB:(DE-HGF)29 },
    reportid = { RWTH-2016-06614 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/668156/files/668156.pdf },
}
```

```
@inproceedings { BMC+13,  
  author = { Biallas, Sebastian and Mads, Chr. Olesen and Cassez, Franck  
and Huuck, Ralf },  
  title = { PtrTracker: Pragmatic pointer analysis },  
  booktitle = { 2013 IEEE 13th International Working Conference on Source  
Code Analysis and Manipulation (SCAM) : 22 - 23 Sept. 2013, Eindhoven, the  
Netherlands / sponsors: IEEE Computer Society Technical Council on Software  
Engineering ... Ed.: Bram Adams ... },  
  publisher = { IEEE },  
  pages = { 69-73 },  
  year = { 2013 },  
  address = { Piscataway, NJ },  
  organization = { 2013 IEEE 13th International Working Conference on  
Source Code Analysis and Manipulation, Eindhoven (Netherlands), 2013-09-22 -  
2013-09-23 },  
  doi = { 10.1109/SCAM.2013.6648186 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-CONV-236321 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/752296 },  
}
```

```
@inproceedings { BKS12b,  
  author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,  
Bastian },  
  title = { Range and Value-Set Analysis for Programmable Logic  
Controllers },  
  booktitle = { Proceedings of the 11th International Workshop on  
Discrete Event Systems },  
  publisher = { IFAC },  
  pages = { 378-383 },  
  year = { 2012 },  
  address = { Guadalajara, Mexico },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-CONV-236327 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/752302 },  
}
```

```
@inproceedings { BBK+12,  
  author = { Biallas, Sebastian and Brauer, Jörg and King, Andy and  
Kowalewski, Stefan },  
  title = { Loop Leaping with Closures },  
  booktitle = { Static Analysis : 19th International Symposium, SAS 2012,  
Deauville, France, September 11-13, 2012. Proceedings / edited by Antoine  
Miné, David Schmidt },  
  publisher = { Springer },  
  pages = { 214-230 },  
  series = { Lecture Notes in Computer Science },  
  year = { 2012 },  
  address = { Berlin, Heidelberg },
```

```
organization = { Static Analysis : 19. International Symposium,
Deauville (France), 2012-09-11 - 2012-09-13 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236335 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752305 },
}

@inproceedings { BMA+23,
author = { B{"o"}hlen, Boris and Meyer, Oliver and Alrifaae, Bassam and
Beerwerth, Julius and Kampmann, Alexandru and Kowalewski, Stefan and
Konersmann, Marco and Rumpe, Bernhard and Steinfurth, Felix },
title = { Software-Defined Vehicle – Herausforderungen in der Diagnose
dienstorientierter Fahrzeugarchitekturen },
booktitle = { Diagnose in mechatronischen Fahrzeugsystemen XVI :
Software-Defined Vehicle, SOVD, Maschinelles Lernen und KI,
Standardisierung, HU und ADAS / Prof. Dr. Bernard B{"a"}ker, Dipl.-Ing.
Andreas Unger (Hrsg.) und 53 Mitautoren },
publisher = { TUDpress },
pages = { 17-28 },
year = { 2023 },
address = { Dresden },
organization = { 16. Tagung Diagnose in mechatronischen
Fahrzeugsystemen, Dresden (Germany), 2023-05-23 - 2023-05-24 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2023-10164 },
cin = { 122810 / 121510 / 120000 },
url = {
http://publications.rwth-aachen.de/record/972417/files/972417.pdf },
illkey = { BMBF 01IS22088A - Verbundprojekt MANNHEIM-AUT0tech.agil:
Architektur und Technologien zur Orchestrierung automobiltechnischer
Agilit{"a"}t (01IS22088A) },
}

@inproceedings { BSK16,
author = { Bohlender, Dimitri and Simon, Hendrik and Kowalewski, Stefan
},
title = { Symbolic verification of PLC safety-applications based on
PLCopen automata },
booktitle = { MBMV 2016 : 19. GI/ITG/GMM-Workshop "Methoden und
Beschreibungssprachen zur Modellierung und Verifikation von Schaltungen und
Systemen" : Albert-Ludwigs-Universit{"a"}t Freiburg im Breisgau 1.–2.
M{"a"}rz 2016 / Ralf Wimmer (Herausgeber) },
publisher = { Albert-Ludwigs-Universit{"a"}t },
pages = { 33-45 },
year = { 2016 },
address = { Freiburg im Breisgau },
organization = { 19. GI/ITG/GMM-Workshop "Methoden und
Beschreibungssprachen zur Modellierung und Verifikation von Schaltungen und
Systemen", Freiburg im Breisgau (Germany), 2016-03-01 - 2016-03-02 },
doi = { 10.6094/UNIFR/10636 },
```

```
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207902 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/573821/files/573821.pdf },
}

@inproceedings { BSF+16,
    author = { Bohlender, Dimitri and Simon, Hendrik and Friedrich, Nico
and Kowalewski, Stefan and Hauck-Stattelmann, Stefan },
    title = { Concolic test generation for PLC programs using coverage
metrics },
    booktitle = { 2016 13th International Workshop on Discrete Event
Systems (WODES) : May 30-June 1, 2016, Xi'an, China / edited by Christos G.
Cassandras, Alessandro Giua, Zhiwu Li ; sponsored by IEEE - Control Systems
Society },
    publisher = { IEEE },
    pages = { 432-437 },
    year = { 2016 },
    address = { Piscataway, NJ },
    organization = { 13. International Workshop on Discrete Event Systems,
Xi'an (Peoples R China), 2016-05-30 - 2016-06-01 },
    doi = { 10.1109/WODES.2016.7497884 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2016-11193 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/679431 },
}

@inproceedings { BSK+16,
    author = { Bohlender, Dimitri and Simon, Hendrik and Kowalewski, Stefan
and Hauck-Stattelmann, S. },
    title = { Symbolische Ausf{"u}hrung zum Testen von SPS-Programmen },
    booktitle = { Automation 2016 : secure & reliable in the digital world
: 17. Branchentreff der Mess- und Automatisierungstechnik : Baden-Baden, 07.
und 08. Juni 2016 / VDI/VDE Mess- und Automatisierungstechnik },
    publisher = { VDI Verlag GmbH },
    pages = { 13-14 },
    series = { VDI-Berichte },
    year = { 2016 },
    address = { D{"u"}sseldorf },
    organization = { 17. Branchentreff der Mess- und
Automatisierungstechnik, Baden-Baden (Germany), 2016-06-07 - 2016-06-08 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2016-12035 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/680852 },
}

@article { BK18,
    author = { Bohlender, Dimitri and Kowalewski, Stefan },
```

```
    title = { Compositional Verification of PLC Software using Horn Clauses  
and Mode Abstraction },  
    journal = { IFAC-PapersOnLine },  
    pages = { 428-433 },  
    volume = { 51 },  
    number = { 7 },  
    year = { 2018 },  
    address = { Laxenburg },  
    issn = { 2405-8963 },  
    organization = { 14. IFAC International Workshop on Discrete Event  
Systems, Castellammare di Stabia (Italy), 2018-05-30 - 2018-06-01 },  
    doi = { 10.1016/j.ifacol.2018.06.336 },  
    typ = { PUB:(DE-HGF)16 },  
    reportid = { RWTH-2018-227071 },  
    cin = { 122810 / 120000 },  
    url = { http://publications.rwth-aachen.de/record/730763 },  
}
```

```
@inproceedings { BK18a,  
    author = { Bohlender, Dimitri and Kowalewski, Stefan },  
    title = { Design and Verification of Restart-Robust Industrial Control  
Software },  
    booktitle = { Integrated formal methods : 14th International  
Conference, IFM 2018, Maynooth, Ireland, September 5-7, 2018 : proceedings /  
Carlo A. Furia, Kirsten Winter (eds.) },  
    publisher = { Springer },  
    pages = { 47-68 },  
    series = { Lecture notes in computer science },  
    year = { 2018 },  
    address = { Cham },  
    organization = { 14. International Conference on Integrated Formal  
Methods, Maynooth (Ireland), 2018-09-05 - 2018-09-07 },  
    doi = { 10.1007/978-3-319-98938-9_4 },  
    typ = { PUB:(DE-HGF)7 },  
    reportid = { RWTH-2018-231948 },  
    cin = { 122810 / 120000 },  
    url = { http://publications.rwth-aachen.de/record/752219 },  
}
```

```
@inproceedings { BHK18,  
    author = { Bohlender, Dimitri and Hamm, Daniel and Kowalewski, Stefan  
},  
    title = { Cycle-Bounded Model Checking of PLC Software via Dynamic  
Large-Block Encoding },  
    booktitle = { Applied computing 2018 : the 33rd Annual ACM Symposium on  
Applied Computing : Pau, France, April 9-13, 2018 / sponsored by: ACM  
Special Interest Group on Applied Computing ; conference chairs: Hisham M.  
Haddad (Kennesaw State University, USA), Roger L. Wainwright (University of  
Tulsa, USA), Richard Chbeir (University of Pau & Pays Adour, France) },  
    publisher = { ACM },  
    pages = { 1891-1898 },  
}
```

```
    year = { 2018 },
    address = { New York, NY },
    organization = { 33. ACM Symposium on Applied Computing, Pau (France),
2018-04-09 - 2018-04-13 },
    doi = { 10.1145/3167132.3167334 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2018-231950 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752221 },
}

@article { BK19,
    author = { Bohlender, Dimitri and Kowalewski, Stefan },
    title = { Leveraging Horn clause solving for compositional verification
of PLC software },
    journal = { Discrete event dynamic systems },
    publisher = { Springer Science + Business Media B.V },
    pages = { 1-24 },
    volume = { 30 },
    year = { 2019 },
    address = { Dordrecht [u.a.] },
    issn = { 1573-7594 },
    doi = { 10.1007/s10626-019-00296-8 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2019-12207 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/775404 },
}

@article { BK19a,
    author = { Bohlender, Dimitri and K{"o}hl, Maximilian A. },
    title = { Towards a Characterization of Explainable Systems },
    year = { 2019 },
    typ = { PUB:(DE-HGF)25 },
    reportid = { RWTH-2020-01624 },
    cin = { 122810 / 120000 },
    url = {
https://www.semanticscholar.org/paper/Towards-a-Characterization-of-Explainable-Systems-Bohlender-K%C3%B6hl/b3516a71fed895a1a88b7d9842eca41c0fb48b7d },
}

@article { BCK+19,
    author = { Bohlender, Dimitri and Chiyah Garcia, Francisco J. and
K{"o}hl, Maximilian and Menghi, Claudio and Wortmann, Andreas },
    title = { On Explainability and its Characterization },
    pages = { 4-7 },
    year = { 2019 },
    organization = { GI Dagstuhl Seminar 19023 on Explainable Software for
Cyber-Physical Systems, Dagstuhl (Germany), 2019-01-06 - 2019-01-11 },
    doi = { 10.18154/RWTH-2020-01625 },
    typ = { PUB:(DE-HGF)25 },
```

```

    reportid = { RWTH-2020-01625 },
    cin = { 122810 / 120000 / 121510 },
    url = { https://arxiv.org/pdf/1904.11851.pdf#page=9 },
}

@phdthesis { Boh21,
    author = { Bohlender, Dimitri },
    othercontributors = { Kowalewski, Stefan and Hermanns, Holger },
    title = { Symbolic methods for formal verification of industrial
control software },
    publisher = { RWTH Aachen University },
    school = { RWTH Aachen University },
    pages = { 1 Online-Ressource : Illustrationen, Diagramme },
    series = { Aachener Informatik-Berichte },
    year = { 2021 },
    address = { Aachen },
    doi = { 10.18154/RWTH-2021-10633 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2021-10633 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/835546/files/835546.pdf },
}

@techreport { BIK+22,
    author = { Bolke-Hermanns, Helene-Maria and Indermark, Klaus and
Katoen, Joost-Pieter and Kowalewski, Stefan and Noll, Thomas and Thomas,
Wolfgang },
    title = { 50 Jahre Studiengang Informatik an der RWTH Aachen : Ein
Streifzug in Text und Bild },
    publisher = { Fachgruppe Informatik in der Fakultät für
Mathematik, Informatik und Naturwissenschaften der RWTH Aachen },
    pages = { 152 Seiten : Illustrationen, Diagramme },
    year = { 2022 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)29 },
    reportid = { RWTH-2022-09039 },
    cin = { 120000 / 121310 / 122910 / 122810 },
    url = {
https://www.informatik.rwth-aachen.de/global/show_document.asp?id=aaaaaaaabq
puxyx },
}

@inproceedings { BCK+05,
    author = { Bollig, Alexander and Chevalier, Wolf and Kowalewski, Stefan
and Florissen, G. },
    title = { Architekturen für die Funktionsintegration },
    booktitle = { 25 Jahre Elektronik-Systeme im Kraftfahrzeug :
Rückblick, Ausblick, Visionen ; [25. Tagung 'Elektronik im
Kraftfahrzeug' vom Haus der Technik Essen e.V. in München] / Bernard
Baker (Hrsg.) u. 43 Mitautoren : 2005.06.14-15. Electronics in Vehicles

```

```
Conference ; 25 (M{"u"}nchen) : 2005.06.14-15 },
  publisher = { Expert-Verl. },
  series = { Haus der Technik Fachbuch },
  year = { 2005 },
  address = { Renningen },
  organization = { 25. Tagung 'Elektronik im Kraftfahrzeug', M{"u"}nchen
(Germany), 2005-06-14 - 2005-06-15 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-181605 },
  cin = { 416610 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/109503 },
}
```

```
@inproceedings { BKC+05,
  author = { Bollig, Alexander and Kowalewski, Stefan and Chevalier, Wolf
and Florissen, G. },
  title = { Architekturen f{"u"}r die Funktionsintegration },
  booktitle = { 14. Aachener Kolloquium Fahrzeug- und Motorentechnik :
04. - 06. Oktober 2005, Eurogress Aachen = 14. Aachen Colloquium Automobile
and Engine Technology / [Hrsg.: VKA, Lehrstuhl f{"u"}r
Verbrennungskraftmaschinen Aachen ...] Wiss. Leitung: Stefan Pischinger ....
- Bd. 1. 05. Oktober 2005 },
  publisher = { ika },
  pages = { 551-562 },
  year = { 2005 },
  address = { Aachen },
  organization = { 14. Aachener Kolloquium Fahrzeug- und Motorentechnik =
14. Aachen Colloquium Automobile and Engine Technology, Aachen (Germany),
2005-10-04 - 2005-10-06 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-182116 },
  cin = { 416610 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/110043 },
}
```

```
@proceedings { BGL+10,
  editor = { Bollue, Kai and G{"u"}ckel, Dominique and Loup, Ulrich and
Sp{"o"}nemann, Jacob and Winkler, Melanie },
  title = { Proceedings of the Joint Workshop of the German Research
Training Groups in Computer Science : May 31 - June 2, 2010 },
  publisher = { Verlagshaus Mainz },
  pages = { 213 Seiten },
  year = { 2010 },
  organization = { Joint Workshop of the German Research Training Groups
in Computer Science, Wadern (Germany), 2010-05-31 - 2010-06-02 },
  typ = { PUB:(DE-HGF)26 },
  reportid = { RWTH-CONV-236345 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752313 },
}
```

```
@techreport { BFH+18,
  author = { Bordasch, Manuel and Facchi, Christian and Heidepriem,
    Sebastian and J{"a}hnert, J{"u"}rger and Jung, Tobias and K{"o"}llner,
    Christian and Kraas, Alexander and Krause, Jan and Kr{"u"}ning, Kai and
    Kugler, Alexander and Maschler, Benjamin and Schleicher, Christian and
    Siegrist, Daniel and Simon, Hendrik and St{"o"}rmer, Christoph and
    Th{"o"}nnessen, David and Wassermann, Erik and Weyrich, Michael and Wimmer,
    Thomas and Zeller, Andreas },
  title = { VDI Status Report Testing of Networked Systems for Industrie
    4.0 },
  pages = { 1-20 },
  year = { 2018 },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-CONV-236295 },
  cin = { 122810 / 120000 },
  url = {
https://www.vdi.de/ueber-uns/presse/publikationen/details?tx\_vdipublications\_publicationdetails%5Bpublication%5D=19&cHash=e6b4c230eafa31d95ceb75395274c78c },
}

@inproceedings { BPK09,
  author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,
    Stefan },
  title = { Using higher-order transformations to derive variability
    mechanism },
  booktitle = { ACES-MB 2009 : Model Based Architecting and Construction
    of Embedded Systems ; Proceedings of the 2nd International Workshop on Model
    Based Architecting and Construction of Embedded Systems ; held as part of
    the 2009 International Conference on Model Driven Engineering Languages and
    Systems (MoDELS'09) ; Denver, Colorado, USA, October 6, 2009 / Ed. by:
    Stefan Van Baelen ... },
  publisher = { RWTH Aachen },
  pages = { 107-121 },
  series = { CEUR Workshop Proceedings },
  year = { 2009 },
  address = { Aachen, Germany },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-172337 },
  cin = { 122810 / 120000 },
  url = {
http://nbn-resolving.de/urn/resolver.pl?urn=urn:nbn:de:0074-507-1 },
}

@inproceedings { BPK09a,
  author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,
    Stefan },
  title = { Interactive configuration of embedded systems product lines
    },
  booktitle = { Proceedings of the 13th International Software Product
    Line Conference, SPLC 2009 : 24-28 August 2009, San Francisco, California,
```

```
USA / IEEE Computer Society. John D. McGregor; ... (Eds.) },
  publisher = { IEEE },
  pages = { 52-58 },
  year = { 2009 },
  address = { Piscataway, NJ },
  organization = { 13. International Software Product Line Conference,
San Francisco, CA (USA), 2009-08-24 - 2009-08-28 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172338 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99370 },
}

@inproceedings { BPP+09,
  author = { Botterweck, G{"o"}tz and Pleuss, Andreas and Polzer, Andreas
and Kowalewski, Stefan },
  title = { Towards Feature-driven Planning of Product-Line Evolution },
  booktitle = { Proceedings of the first International Workshop on
Feature-Oriented Software Development (FOSD) : October 6, 2009 Denver,
Colorado, USA / eds.: Sven Apel ... },
  publisher = { ACM },
  pages = { 109-116 },
  year = { 2009 },
  address = { New York, NY },
  organization = { 1. International Workshop on Feature-Oriented Software
Development (FOSD), Denver, CO (USA), 2009-10-06 - 2009-10-06 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-173256 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/100436 },
}

@inproceedings { BPK10,
  author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,
Stefan },
  title = { Variability and Evolution in Model-based Engineering of
Embedded Systems },
  booktitle = { Tagungsband / Dagstuhl-Workshop MBEES: Modellbasierte
Entwicklung eingebetteter Systeme VI : Model-Based Development of Embedded
Systems (MBEES 2010) ; 03.02.2010 – 05.02.2010 / Holger Giese ... [Hrsg.] },
  publisher = { fortiss },
  pages = { 87-96 },
  year = { 2010 },
  address = { M{"u"}nchen },
  organization = { Dagstuhl-Workshop MBEES: Modellbasierte Entwicklung
eingebetteter Systeme VI, 2010-02-03 - 2010-02-05 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-190301 },
  cin = { 122810 / 120000 },
  url = {
https://www.tu-braunschweig.de/Medien-DB/isf/mbees2010\_tagungsband.pdf },
}
```

```
}

@inproceedings { BPD+10,
  author = { Botterweck, G{"o}tz and Pleuss, Andreas and Dhungana,
Deepak and Polzer, Andreas and Kowalewski, Stefan },
  title = { EvoFM: Feature-driven Planning of Product-line Evolution },
  booktitle = { PLEASE '10 : Proceedings of the 2010 ICSE Workshop on
Product Line Approaches in Software Engineering ; May, Cape Town, South
Africa },
  publisher = { ACM },
  pages = { 24-31 },
  year = { 2010 },
  address = { New York, NY },
  organization = { 2010 ICSE Workshop on Product Line Approaches in
Software Engineering ;, Cape Town (South Africa) },
  doi = { 10.1145/1808937.1808941 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196793 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/126457 },
}

@inproceedings { BPK09b,
  author = { Botterweck, G{"o}tz and Polzer, Andreas and Kowalewski,
Stefan },
  title = { Using Higher-Order Transformations to Derive Variability
Mechanism for Embedded Systems },
  booktitle = { Models in software engineering : workshops and symposia
at MODELS 2009, Denver, CO, USA, October 4 - 9, 2009 ; reports and revised
selected papers / Sudipto Ghosh (ed.) },
  publisher = { Springer },
  pages = { 68-82 },
  series = { Lecture notes in computer science },
  year = { 2009 },
  address = { Berlin [u.a.] },
  organization = { workshops and symposia at MODELS 2009, Denver, CO
(USA), 2009-10-04 - 2009-10-09 },
  doi = { 10.1007/978-3-642-12261-3_8 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199034 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/129006 },
}

@techreport { BRT11,
  author = { Brauer, J{"o}rg and Roveri, Marco and Tews, Hendrik },
  title = { Proceedings of the 6th International Workshop on Systems
Software Verification (SSV 2011) },
  publisher = { TU },
  pages = { 101 S. },
  number = { TUD-FI11-02-August 2011 },
}
```

```
    year = { 2011 },
    address = { Dresden },
    typ = { PUB:(DE-HGF)26 },
    reportid = { RWTH-CONV-008161 },
    cin = { 122810 / 120000 },
    url = { https://es.fbk.eu/events/ssv2011/papers/proceedings.pdf },
}

@inproceedings { BSR+09,
    author = { Brauer, J{"o}rg and Schlich, Bastian and Reinbacher, Thomas
and Kowalewski, Stefan },
    title = { Stack bounds analysis of microcontroller assembly code },
    booktitle = { Embedded Systems Week 2009 : CODES+ISSS'09, CASES'09,
EMSOFTE'09 ; Proceedings of the 2009 international conference on Compilers,
architecture, and synthesis for embedded systems ; 2009, Grenoble, France,
October 11 - 16, 2009 },
    publisher = { ACM Press },
    year = { 2009 },
    address = { New York, NY },
    organization = { 2009 international conference on Compilers,
architecture, and synthesis for embedded systems, Grenoble (France),
2009-10-11 - 2009-10-16 },
    doi = { 10.1145/1631716.1631721 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173253 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/100433 },
}

@inproceedings { BK10,
    author = { Brauer, J{"o}rg and King, Andy },
    title = { Automatic Abstraction for Intervals using Boolean Formulae },
    booktitle = { Static analysis : 17th international symposium, SAS 2010,
Perpignan, France, September 14-16, 2010 ; proceedings / Radhia Cousot;
Matthieu Martel (eds.) },
    publisher = { Springer },
    pages = { 167-183 },
    series = { Lecture notes in computer science },
    year = { 2010 },
    address = { Berlin [u.a.] },
    organization = { Static analysis : 17. international symposium,
Perpignan (France), 2010-09-14 - 2010-09-16 },
    doi = { 10.1007/978-3-642-15769-1_11 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-190302 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/119140 },
}

@inproceedings { BKK10,
    author = { Brauer, J{"o}rg and King, Andy and Kowalewski, Stefan },
```

```
    title = { Range Analysis of Microcontroller Code using Bit-Level
Congruences },
    booktitle = { Formal methods for industrial critical systems : 15th
international workshop, FMICS 2010, Antwerp, Belgium, September 20 - 21,
2010 ; proceedings / Stefan Kowalewski; Marco Roveri (eds.) },
    publisher = { Springer },
    pages = { 82-98 },
    series = { Lecture notes in computer science },
    year = { 2010 },
    address = { Berlin [u.a.] },
    organization = { Formal methods for industrial critical systems : 15.
international workshop, Antwerp (Belgium), 2010-09-20 - 2010-09-21 },
    doi = { 10.1007/978-3-642-15898-8_6 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-190303 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/119141 },
}

@inproceedings { BNS10,
    author = { Brauer, Jörg and Noll, Thomas and Schlich, Bastian },
    title = { Interval Analysis of Microcontroller Code using Abstract
Interpretation of Hardware and Software },
    booktitle = { SCOPES '10 Proceedings of the 13th International Workshop
on Software & Compilers for Embedded Systems : St. Goar, Germany - June
29-30, 2010 },
    publisher = { ACM },
    series = { ACM Digital Library },
    year = { 2010 },
    address = { New York, NY },
    organization = { 13. International Workshop on Software & Compilers for
Embedded Systems, St. Goar (Germany), 2010-06-29 - 2010-06-30 },
    doi = { 10.1145/1811212.1811216 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-191119 },
    cin = { 122810 / 121310 / 120000 },
    url = { http://publications.rwth-aachen.de/record/120063 },
}

@inproceedings { BS12,
    author = { Brauer, Jörg and Simon, Axel },
    title = { Inferring Definite Counterexamples Through Under-
Approximation },
    booktitle = { NASA formal methods : 4th international symposium, NFM
2012, Norfolk, VA, USA, April 3 - 5, 2012 ; proceedings / Alwyn E. Goodloe;
Suzette Person (ed.) },
    publisher = { Springer },
    pages = { 54-69 },
    series = { Lecture Notes in Computer Science },
    year = { 2012 },
    address = { Berlin ; Heidelberg [u.a.] },
```

```
organization = { NASA formal methods : 4. international symposium,  
Norfolk, VA (USA), 2012-04-03 - 2012-04-05 },  
typ = { PUB:(DE-HGF)8 },  
reportid = { RWTH-CONV-194497 },  
cin = { 122810 / 120000 },  
url = { http://publications.rwth-aachen.de/record/123648 },  
}  
  
@inproceedings { BK11,  
author = { Brauer, J{"o}rg and King, Andy },  
title = { Approximate Quantifier Elimination for Propositional Boolean  
Formulae },  
booktitle = { NASA formal methods : third international symposium, NFM  
2011, Pasadena, CA, USA, April 18-20, 2011 ; proceedings / Mihaela Bobaru  
... (eds.) },  
publisher = { Springer },  
pages = { 73-88 },  
series = { Lecture Notes in Computer Science },  
year = { 2011 },  
address = { Heidelberg [u.a.] },  
organization = { 3. international symposium: NASA formal methods,  
Pasadena, CA (USA), 2011-04-18 - 2011-04-20 },  
doi = { 10.1007/978-3-642-20398-5 },  
typ = { PUB:(DE-HGF)8 },  
reportid = { RWTH-CONV-194773 },  
cin = { 122810 / 120000 },  
url = { http://publications.rwth-aachen.de/record/124043 },  
}  
  
@inproceedings { BKK11,  
author = { Brauer, J{"o}rg and King, Andy and Kriener, Jael },  
title = { Existential Quantification as Incremental SAT },  
booktitle = { Computer aided verification : 23rd international  
conference, CAV 2011, Snowbird, UT, USA, July 14-20, 2011 ; proceedings /  
Ganesh Gopalakrishnan; Shaz Qadeer (eds.) },  
publisher = { Springer },  
pages = { 191-207 },  
series = { Lecture notes in computer science },  
year = { 2011 },  
address = { Heidelberg [u.a.] },  
organization = { Computer aided verification : 23. international  
conference, Snowbird, UT (USA), 2011-07-14 - 2011-07-20 },  
doi = { 10.1007/978-3-642-22110-1 },  
typ = { PUB:(DE-HGF)7 },  
reportid = { RWTH-CONV-196588 },  
cin = { 122810 / 120000 },  
url = { http://publications.rwth-aachen.de/record/126209 },  
}  
  
@inproceedings { BK11a,  
author = { Brauer, J{"o}rg and King, Andy },
```

```

    title = { Transfer Function Synthesis without Quantifier Elimination },
    booktitle = { Programming languages and systems : 20th European
Symposium on Programming, ESOP 2011, held as part of the Joint European
Conference on Theory and Practice of Software, ETAPS 2011, Saarbrücken,
Germany, March 26-April 3, 2011 ; proceedings / Gilles Barthe (ed.) },
    publisher = { Springer },
    pages = { 97-115 },
    series = { Lecture notes in computer science },
    year = { 2011 },
    address = { Heidelberg [u.a.] },
    organization = { 20. European Symposium on Programming, Saarbrücken
(Germany), 2011-03-26 - 2011-04-03 },
    doi = { 10.1007/978-3-642-19718-5 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-196794 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/126458 },
}

```

```

@inproceedings { BKK+10,
    author = { Brauer, Jörg and Kamin, Volker and Kowalewski, Stefan
and Noll, Thomas },
    title = { Loop Refinement using Octagons and Satisfiability },
    booktitle = { SSV'10 : Proceedings of the 5th international conference
on Systems software verification },
    publisher = { ACM },
    pages = { 9 S. },
    year = { 2010 },
    address = { New York, NY },
    organization = { 5. international conference on Systems software
verification },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-196798 },
    cin = { 122810 / 121310 / 120000 },
    url = { http://dl.acm.org/citation.cfm?id=1929004&picked=prox },
}

```

```

@inproceedings { BHK+12,
    author = { Brauer, Jörg and Hansen, Rene Rydhof and Kowalewski,
Stefan and Larsen, Kim G. and Olesen, Mads Chr. },
    title = { Adaptable Value-Set Analysis for Low-Level Code },
    booktitle = { 6th International Workshop on Systems Software
Verification (SSV 2011) [Elektronische Ressource] / Hrsg.: Jörg Brauer ;
Marco Roveri ; Hendrik Tews },
    publisher = { Schloss Dagstuhl - Leibniz-Zentrum für Informatik },
    pages = { 32-43 },
    series = { OASICS - OpenAccess Series in Informatics },
    year = { 2012 },
    address = { Wadern },
    organization = { 6. International Workshop on Systems Software
Verification },
}

```

```
doi = { 10.4230/OASICS.SSV.2011.32 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-198838 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/128784 },
}

@article { BHS09,
  author = { Brauer, J{"o}rg and Huuck, Ralf and Schlich, Bastian },
  title = { Interprocedural pointer analysis in Goanna },
  journal = { Electronic notes in theoretical computer science : ENTCS },
  publisher = { Elsevier Science },
  pages = { 65-83 },
  volume = { 254 },
  year = { 2009 },
  address = { Amsterdam [u.a.] },
  issn = { 1571-0661 },
  doi = { 10.1016/j.entcs.2009.09.060 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-013641 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/132532 },
}

@article { BSK12,
  author = { Brauer, J{"o}rg and Schlich, Bastian and Kowalewski, Stefan },
  title = { Parallel and distributed invariant checking of
microcontroller software },
  journal = { Electronic notes in theoretical computer science : ENTCS },
  publisher = { Elsevier Science },
  pages = { 45-63 },
  volume = { 287 },
  year = { 2012 },
  address = { Amsterdam [u.a.] },
  issn = { 1571-0661 },
  organization = { 4. International Workshop on Numerical and Symbolic
Abstract Domains (France), 10-09-2010 },
  doi = { 10.1016/j.entcs.2009.09.059 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-013643 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/132534 },
}

@article { BK12a,
  author = { Brauer, J{"o}rg and King, Andy },
  title = { Transfer function synthesis without quantifier elimination },
  journal = { Logical methods in computer science : LMCS },
  publisher = { Department of Theoretical Computer Science, TU [u.a.] },
  volume = { 8 },
```

```

    number = { 3 },
    year = { 2012 },
    address = { Braunschweig },
    issn = { 1860-5974 },
    doi = { 10.2168/LMCS-8(3:17)2012 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-079893 },
    cin = { 120000 / 122810 },
    url = {
http://publications.rwth-aachen.de/record/218122/files/218122.pdf },
}

@techreport { BK13,
    author = { Brauer, J{"o}rg and Kowalewski, Stefan },
    title = { Automatic abstraction for bit vectors using decision
procedures },
    publisher = { Fachgruppe Informatik, RWTH Aachen University },
    pages = { IV, 207 S. : graph. Darst. },
    volume = { 2013,14 },
    number = { AIB 2013 14 },
    series = { Aachener Informatik-Berichte },
    year = { 2013 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-010470 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/229199/files/4836.pdf
},
}

@article { BKK13,
    author = { Brauer, J{"o}rg and King, Andy and Kowalewski, Stefan },
    title = { Abstract interpretation of microcontroller code: Intervals
meet congruences },
    journal = { Science of computer programming },
    publisher = { Elsevier },
    pages = { 862-883 },
    volume = { 78 },
    number = { 7 },
    year = { 2013 },
    address = { Amsterdam [u.a.] },
    issn = { 0167-6423 },
    organization = { Formale Methoden f{"u}r industriekritische Systeme },
    doi = { 10.1016/j.scico.2012.06.001 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-086725 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/238031 },
}

@article { BHK+15,

```

```

    author = { Brendle, Christian and Hackmack, Kay-Florian and K{"u}hn,
Jan and Wardeh, Markus Nabil and Kopp, R{"u}dger and Rossaint, Rolf and
Stollenwerk, André and Kowalewski, Stefan and Misgeld, Berno Johannes
Engelbert and Leonhardt, Steffen and Walter, Marian },
    title = { In silico evaluation of gas transfer estimation during
extracorporeal membrane oxygenation },
    journal = { IFAC-PapersOnLine },
    publisher = { Elsevier },
    pages = { 499-504 },
    volume = { 48 },
    number = { 20 },
    year = { 2015 },
    address = { Laxenburg },
    issn = { 2405-8963 },
    organization = { 9. IFAC Symposium on Biological and Medical Systems,
Berlin (Germany), 2015-08-31 - 2015-09-02 },
    doi = { 10.1016/j.ifacol.2015.10.190 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-207911 },
    cin = { 122810 / 120000 / 611010533000-2 },
    url = { http://publications.rwth-aachen.de/record/573832 },
    illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

```

```

@article { BHK+17,
    author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan and
Wardeh, M. N. and Janisch, T. and Kopp, R{"u}dger and Rossaint, Rolf and
Stollenwerk, André and Kowalewski, Stefan and Leonhardt, Steffen and Walter,
Marian and Misgeld, Berno Johannes Engelbert },
    title = { Closed-loop control of extracorporeal oxygen and carbon
dioxide gas transfer },
    journal = { Control engineering practice },
    publisher = { Elsevier Science },
    pages = { 173-182 },
    volume = { 59 },
    year = { 2017 },
    address = { Amsterdam [u.a.] },
    issn = { 0967-0661 },
    doi = { 10.1016/j.conengprac.2016.09.016 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2016-10175 },
    cin = { 611010 / 122810 / 120000533000-2 / 9210120 },
    url = { http://publications.rwth-aachen.de/record/678130 },
    illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

```

```

@article { BHK+16,

```

```

    author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan and
Wardeh, M. N. and Janisch, T. and Kopp, R{"u}dger and Rossaint, Rolf and
Stollenwerk, André and Kowalewski, Stefan and Misgeld, Berno Johannes
Engelbert and Leonhardt, Steffen and Walter, Marian },
    title = { Continuous gas transfer monitoring during extracorporeal
membrane oxygenation },
    journal = { Biomedical signal processing and control },
    publisher = { Elsevier },
    pages = { 321-330 },
    volume = { 31 },
    year = { 2016 },
    address = { Amsterdam [u.a.] },
    issn = { 1746-8094 },
    doi = { 10.1016/j.bspc.2016.08.023 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2016-10177 },
    cin = { 611010 / 122810 / 120000533000-2 },
    url = { http://publications.rwth-aachen.de/record/678132 },
}

```

```

@article { BMK+17,
    author = { Brendle, Christian and M{"u}lders, Thorsten and K{"u}hn,
Jan and Janisch, Thorsten and Kopp, R{"u}dger and Rossaint, Rolf and
Stollenwerk, André and Kowalewski, Stefan and Misgeld, Berno Johannes
Engelbert and Leonhardt, Steffen and Walter, Marian },
    title = { Physiological closed-loop control of mechanical ventilation
and extracorporeal membrane oxygenation },
    journal = { Biomedical engineering = Biomedizinische Technik },
    publisher = { de Gruyter },
    pages = { 199-212 },
    volume = { 62 },
    number = { 2 },
    year = { 2017 },
    address = { Berlin [u.a.] },
    issn = { 1862-278X },
    doi = { 10.1515/bmt-2016-0077 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2017-09475 },
    cin = { 611010 / 122810533000-2 / 120000 },
    url = { http://publications.rwth-aachen.de/record/707843 },
}

```

```

@article { BBS+11a,
    author = { Brendle, Christian and Bensberg, Ralf and Stollenwerk, André
and Arens, Jutta and Walter, Marian },
    title = { Patientenorientierte Automatisierung der Therapie mit der
Extrakorporalen Membranoxygenierung (ECMO) },
    journal = { Biomedizinische Technik = Biomedical Engineering },
    publisher = { de Gruyter },
    pages = { 4 Seiten },
    volume = { 56 },
}

```

```
number = { Suppl. 1 },
year = { 2011 },
address = { Berlin [u.a.] },
issn = { 1862-278X },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-224840 },
cin = { 811001-4 / 611010 / 122810 / 120000 },
url = { http://dx.doi.org/10.1515/BMT.2011.811 },
}

@inproceedings { BBS+11b,
  author = { Brendle, Christian and Bensberg, Ralf and Stollenwerk, André
and Arens, Jutta and Walter, Marian },
  title = { Patient Orientated Automation of the Therapy with the
Extracorporeal Membrane Oxygenation (ECMO) },
  booktitle = { 45. Jahrestagung der Deutschen Gesellschaft f{"u}r
Biomedizinische Technik },
  publisher = { DGBMT },
  year = { 2011 },
  organization = { 45. Jahrestagung der Deutschen Gesellschaft f{"u}r
Biomedizinische Technik },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236325 },
  cin = { 122810 / 120000 / 611010 },
  url = { http://publications.rwth-aachen.de/record/752308 },
}

@inproceedings { BBG+20,
  author = { Buchsbaum, Melanie Sarah Katharina and Brecher, Christian
and Grochowski, Marco and Kowalewski, Stefan },
  title = { Identifikation von Informationen zur Beschreibung der
Systemgrenzen eines sicheren, cyber-physischen Automatisierungssystems },
  booktitle = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : 16. Fachtagung
EKA 2020 / Ulrich Jumar, Christian Diedrich (Hrsg.) },
  publisher = { Institut f{"u}r Automation und Kommunikation e.V., An-
Institut der Otto-von-Guericke-Universit{"a}t Magdeburg },
  pages = { 10 Seiten },
  year = { 2020 },
  address = { Magdeburg },
  organization = { 16. Fachtagung EKA-Entwurf komplexer
Automatisierungssysteme, cancelled },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2020-05987 },
  cin = { 417200 / 417310 / 080067 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/792285 },
  illkey = { DFG project 390621612 - EXC 2023: Internet of Production
(IoP) (390621612) },
}

@article { BBF+20,
```

```

    author = { Buglowski, Mateusz and Bleilevens, Christian and Fabry,
Gregor and Kowalewski, Stefan and Stollenwerk, André },
    title = { Flussgesteuerte pH-Regulierung in einem automatisierten
Nierenperfusionssystem },
    journal = { Proceedings on automation in medical engineering },
    publisher = { Infinite Science },
    volume = { 1 },
    number = { 1 },
    year = { 2020 },
    address = { L{"u}beck },
    organization = { Automation in Medical Engineering, L{"u}beck
(Germany), 2020-03-02 - 2020-03-03 },
    doi = { 10.18154/RWTH-2020-02624 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2020-02624 },
    cin = { 122810 / 120000533000-3533000-2 },
    url = { https://doi.org/10.18416/AUTOMED.2020 },
    illkey = { BMBF-031L0134B - Alternativmethoden - Verbund: AutoMock -
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{"u}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{"a}tstestung von Membranoxygenatoren und zur
Transplantationssimulation (BMBF-031L0134B) },
}

@inproceedings { BPB+22,
    author = { Buglowski, Mateusz and Pfannschmidt, Valerie and Becker,
Sabine and Braun, Oliver and Hutten, Matthias and Ophelders, Daan and Oprea,
Camelia and Pattai, Steffen and Schoberer, Mark and Stollenwerk, André },
    title = { Closed-Loop Control of Arterial CO2 in Mechanical Ventilation
of Neonates },
    booktitle = { 44th Annual International Conference of the IEEE
Engineering in Medicine and Biology Society (EMBC) / pre-conference
workshops & social events: Monday, July 11, 2022, conference dates: Tuesday,
July 12-Friday, July 15, 2022 / conference chair: Christopher James
(University of Warwick), conference co-chair: James Patton (University of
Chicago) ; programm chair: Ron Summers (Collegium Basilea) },
    publisher = { IEEE },
    pages = { 4991-4995 },
    year = { 2022 },
    address = { [Piscataway, NJ] },
    organization = { 44. Annual International Conference of the IEEE
Engineering in Medicine & Biology Society, Glasgow (UK), 2022-07-11 -
2022-07-15 },
    doi = { 10.1109/EMBC48229.2022.9871185 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2023-00482 },
    cin = { 122810 / 120000537500-5 },
    url = { http://publications.rwth-aachen.de/record/862362 },
    illkey = { BMBF-13GW0292C - Innovatives Neonatologiebeatmungsger{"a}t
mit adaptiver Anwenderunterst{"u}tzung (NANNI) - Teilvorhaben: Erforschung
neuer Modelle zur Diagnose von Fehlerzust{"a}nden (BMBF-13GW0292C) },

```

```
}

@techreport { BPS+24,
  author = { Buglowski, Mateusz and Pfannschmidt, Valerie and
Stollenwerk, André and Schoberer, Mark and Huong Nguyen, Thi Bich and
Becker, Sabine and Braun, Oliver },
  title = { Beatmungsger{\a}t und Verfahren zur Atemgasversorgung },
  pages = { 29 Seiten : Illustrationen },
  year = { 2024 },
  typ = { PUB:(DE-HGF)23 },
  reportid = { RWTH-2024-00553 },
  cin = { 122810 / 120000537500-5 ; 537500-2 ; 933410 },
  url = {
https://worldwide.espacenet.com/patent/search/family/087245644/publication/D
E102022117141A1?q=W0202408785 },
}

@techreport { BKR+20,
  author = { B{\u}rger, Jens Christoph and Kausch, Hendrik and Raco,
Deni and Ringert, Jan Oliver and Rumpe, Bernhard and St{\u}ber, Sebastian
Wolfram and Wiartalla, Marc Oliver },
  title = { Towards an Isabelle Theory for distributed, interactive
systems : the untimed case },
  publisher = { Shaker Verlag },
  pages = { 254 Seiten },
  volume = { 45 },
  series = { Aachener Informatik-Berichte, Software-Engineering },
  year = { 2020 },
  address = { D{\u}ren },
  doi = { 10.18154/RWTH-2020-10398 },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-2020-10398 },
  cin = { 121510 / 120000 / 122810 },
  url = {
https://www.shaker.de/de/content/catalogue/index.asp?lang=de&ID=8&ISBN=978-3
-8440-7265-5 },
}

@techreport { CBD+10,
  author = { Chávez Grunewald, Martin Guillermo and Ben Makhoulf,
Ibtissem and Diab, Hilal and Abel, Dirk and Kowalewski, Stefan },
  title = { On the Effects of Network Delays on an Energy-based
Controller },
  booktitle = { NecSys'10 : 2nd IFAC Workshop on Distributed Estimation
and Control in Networked Systems ; 13-14 September, 2010, Centre de Congrès
de L'Impérial Palace, Annecy, France },
  pages = { 169-174 },
  number = { TuP011.1 },
  year = { 2010 },
  organization = { 2. IFAC Workshop on Distributed Estimation and Control
in Networked Systems, Annecy (France), 2010-09-13 - 2010-09-14 },
```

```
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-009571 },
    cin = { 122810 / 416610 / 120000 },
    url = { http://publications.rwth-aachen.de/record/118448 },
}

@inproceedings { CBD+10a,
  author = { Chávez Grunewald, Martin Guillermo and Ben Makhlouf,
Ibtissem and Diab, Hilal and Mut, Vicente and Kowalewski, Stefan and Abel,
Dirk },
  title = { Regelung und Sicherheitsanalyse einer Gruppe
Massenpunktfahrzeuge mit Hilfe energiebasierter Methoden },
  booktitle = { Automatisierungstechnik : at },
  publisher = { Oldenbourg },
  pages = { 227-235 },
  volume = { 58 },
  number = { 4 },
  year = { 2010 },
  address = { M{"u"}nchen },
  issn = { 0178-2312 },
  doi = { 10.1524/auto.2010.0829 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-002157 },
  cin = { 122810 / 416610 / 120000 },
  url = { http://publications.rwth-aachen.de/record/133927 },
}

@inbook { CSK+07,
  author = { Chen, Xi and Salewski, Falk and Kowalewski, Stefan and
Spisic, Kresimir },
  title = { Concept and prototyping of a fault management framework for
automotive safety relevant systems },
  booktitle = { Moderne Elektronik im Kraftfahrzeug II : Systeme von
morgen - technische Innovationen und Entwicklungstrends ; und 19 Tabellen /
Hrsg.: Bernard B{"a"}ker },
  publisher = { expert Verl. },
  volume = { 82 },
  series = { Haus der Technik - Fachbuchreihe },
  year = { 2007 },
  address = { Renningen },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-101338 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/89875 },
}

@inproceedings { CSB+15,
  author = { Chen, Xin and Schupp, Stefan and Ben Makhlouf, Ibtissem and
Ábrahám, Erika and Frehse, Goran and Kowalewski, Stefan },
  title = { A Benchmark Suite for Hybrid Systems Reachability Analysis },
  booktitle = { NASA Formal Methods ; 7th International Symposium, NFM
```

```
2015, Pasadena, Calif., USA, April 27-29, 2015, Proceedings / edited by
Klaus Havelund, Gerard Holzmann, Rajeev Joshi },
  publisher = { Springer },
  pages = { 408-414 },
  series = { Lecture Notes in Computer Science },
  year = { 2015 },
  address = { Cham },
  organization = { 7. International Symposium Formal Methods, Pasadena,
Calif. (Germany), 2015-04-27 - 2015-04-29 },
  doi = { 10.1007/978-3-319-17524-9_29 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-207695 },
  cin = { 123420 / 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/541100 },
}
```

```
@inproceedings { CMW+17,
  author = { Chomicz, Paul and M{"u"}ller-Lerwe, Armin and Wegner,
G{"o"}tz-Philipp and Busch, Rainer and Kowalewski, Stefan },
  title = { Towards the Use of Controlled Natural Languages in Hazard
Analysis and Risk Assessment },
  booktitle = { Automotive - Safety & Security 2017 : Sicherheit und
Zuverl{"a"}ssigkeit f{"u"}r automobile Informationstechnik : 30.-31. Mai
2017 Stuttgart, Germany / Peter Dencker, Herbert Klenk, Hubert B. Keller,
Erhard Pl{"o"}dereder (Hrsg.) },
  publisher = { Gesellschaft f{"u"}r Informatik e.V. (GI) },
  pages = { 163-174 },
  series = { GI-Edition : lecture notes in informatics. Proceedings },
  year = { 2017 },
  address = { Bonn },
  organization = { Automotive - Safety & Security 2017 : Sicherheit und
Zuverl{"a"}ssigkeit f{"u"}r automobile Informationstechnik, Stuttgart
(Germany), 2017-05-30 - 2017-05-31 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236312 },
  cin = { 122810 / 120000 },
  url = { https://dl.gi.de/handle/20.500.12116/143 },
}
```

```
@inproceedings { CMW+18,
  author = { Chomicz, Paul and M{"u"}ller-Lerwe, Armin and Wegner,
G{"o"}tz-Philipp and Busch, Rainer and Kowalewski, Stefan },
  title = { Controlled Natural Languages for Hazard Analysis and Risk
Assessment },
  booktitle = { Controlled Natural Language : Proceedings of the Sixth
International Workshop, CNL 2018, Maynooth, Co. Kildare, Ireland, August
27-28, 2018 / edited by Brian Davis (Maynooth University, Ireland), C. Maria
Keet (University of Cape Town, South Africa) and Adam Wyner (Swansea
University, United Kingdom) },
  publisher = { IOS Press },
  pages = { 41-51 },
```

```
series = { Frontiers in Artificial Intelligence and Applications },
year = { 2018 },
address = { Amsterdam [u.a.] },
organization = { 6. International Workshop on Controlled Natural
Language, Maynooth, Co. Kildare (Ireland), 2018-08-27 - 2018-08-28 },
doi = { 10.18154/RWTH-2019-11756 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2019-11756 },
cin = { 122810 / 120000 },
url = { http://ebooks.iospress.nl/volumearticle/49768 },
}

@inproceedings { DDK+17,
author = { Dankert, Jens and Dernehl, Christian and Kusmenko, Evgeny
and Eckstein, Lutz and Kowalewski, Stefan and Rumpe, Bernhard },
title = { RapidCoop - Robuste Architektur durch geeignete Paradigmen
f{"u"}r Kooperativ Interagierende Automobile },
booktitle = { AAET - Automatisiertes und Vernetztes Fahren :
Beitr{"a"}ge zum gleichnamigen 18. Braunschweiger Symposium vom 8. und 9.
Februar 2017, Stadthalle, Braunschweig / ITS automotive nord e.V. (Hrsg.) },
publisher = { ITS automotive nord e.V. },
pages = { 225-244 },
year = { 2017 },
address = { Braunschweig },
organization = { 18. Braunschweiger Symposium AAET - Automatisiertes
und Vernetztes Fahren, Braunschweig (Germany), 2017-02-08 - 2017-02-09 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-231931 },
cin = { 121510 / 120000 / 414110 / 122810 },
url = {
http://www.se-rwth.de/publications/RapidCoop-Robuste-Architektur-durch-geeig
nete-Paradigmen-fuer-Kooperativ-Interagierende-
Automobile.pdf?PHPSESSID=eb66ba2042d9500e5135d33f6b7575af },
}

@article { dMK+15,
author = { de Brouwer, P. and Mager, Ilona and Kopp, R{"u"}dger and
Walter, Marian and Stollenwerk, Andr{e} and Schmitz-Rode, Thomas and
Steinseifer, Ulrich and Arens, Jutta },
title = { Dynamische Studie zum Einfluss von negativem Druck auf
H{"a"}molyse },
journal = { Kardiotechnik },
publisher = { Deutsche Ges. f{"u"}r Kardiotechnik },
pages = { 3-6 },
volume = { 24 },
number = { 1 },
year = { 2015 },
address = { [S.l.] },
issn = { 0941-2670 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2015-04718 },
```

```
cin = { 611010811001-1533000-2 / 122810811001-4 / 120000 },
url = { http://ezb.uni-regensburg.de/?2083549 },
}

@inproceedings { DFD+11,
  author = { Dernehl, Christian and Franke, Dominik and Diab, Hilal and
Kowalewski, Stefan },
  title = { An Architecture with Integrated Image Processing for
Autonomous Micro Aerial Vehicles },
  booktitle = { International Micro Air Vehicle conference and
competitions 2011 (IMAV 2011), 't Harde, The Netherlands, September 12-15,
2011 },
  publisher = { IMAV },
  pages = { 138-145 },
  year = { 2011 },
  organization = { International Micro Air Vehicle conference and
competitions 2011, 't Harde (Netherlands), 2011-09-12 - 2011-09-15 },
  doi = { 10.4233/uuid:19adedb6-e3d9-4cff-8ebc-6497b026adfe },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198392 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/128268 },
}

@inproceedings { DHG+15,
  author = { Dernehl, Christian and Hansen, Norman and Gerlitz, Thomas
and Kowalewski, Stefan },
  title = { Static Value Range Analysis for Matlab/Simulink-Models },
  booktitle = { Informatik 2015 : Tagung vom 28. September – 02. Oktober
2015 in Cottbus / Douglas W. Cunningham ... (Hrsg.) },
  publisher = { Ges. f{"u"}r Informatik },
  pages = { 1649-1660 },
  series = { GI-Edition : lecture notes in informatics },
  year = { 2015 },
  address = { [Bonn] },
  organization = { 45. Jahrestagung der Gesellschaft f{"u"}r Informatik,
Cottbus (Germany), 2015-09-28 - 2015-10-02 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-207913 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/573834 },
}

@inproceedings { DHK16,
  author = { Dernehl, Christian and Hansen, Norman and Kowalewski, Stefan
},
  title = { Abstract Interpretation of MATLAB Code with Interval Sets },
  booktitle = { Critical systems: formal methods and automated
verification : Joint 21st International Workshop on Formal Methods for
Industrial Critical Systems and 16th International Workshop on Automated
Verification of Critical Systems, FMICS-AVoCS 2016, Pisa, Italy, September
```

```

26-28, 2016 : proceedings / Maurice H. ter Beek, Stefania Gnesi, Alexander
Knapp (eds.) },
  publisher = { Springer International Publishing },
  pages = { 25-38 },
  series = { Lecture Notes in Computer Science },
  year = { 2016 },
  address = { Cham },
  organization = { 21. International Workshop on Formal Methods for
Industrial Critical Systems, Pisa (Italy), 2016-09-26 - 2016-09-28 },
  doi = { 10.1007/978-3-319-45943-1_2 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12021 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680837 },
}

@inproceedings { DHK16a,
  author = { Dernehl, Christian and Hansen, Norman and Kowalewski, Stefan
},
  title = { Combining Abstract Interpretation with Symbolic Execution for
a Static Value Range Analysis of Block Diagrams },
  booktitle = { Software engineering and formal methods : 14th
international conference, SEFM 2016, held as part of STAF 2016, Vienna,
Austria, July 4-8, 2016 : proceedings / Rocco De Nicola, Eva K{"u}hn (eds.)
},
  publisher = { Springer International Publishing },
  pages = { 137-154 },
  series = { Lecture Notes in Computer Science },
  year = { 2016 },
  address = { Cham },
  organization = { Software Engineering and Formal Methods : 14.
International Conference, Vienna (Austria), 2016-07-04 - 2016-07-08 },
  doi = { 10.1007/978-3-319-41591-8_10 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12037 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680854 },
}

@inproceedings { DKK16,
  author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski, Stefan
},
  title = { Abstract Interpretation for Block Diagrams : Two Case Studies
},
  booktitle = { MoDeVVA 2016 : Model-Driven Engineering, Verification and
Validation : proceedings of the 13th Workshop on Model-Driven Engineering,
Verification and Validation co-located with ACM/IEEE 19th International
Conference on Model Driven Engineering Languages and Systems (MODELS 2016) :
Saint-Malo, France, October 3, 2016 / edited by Michalis Famelis, Daniel
Ratiu, Gehan M. K. Selim },
  publisher = { RWTH Aachen },

```

```
pages = { 20-29 },
series = { CEUR workshop proceedings },
year = { 2016 },
address = { Aachen, Germany },
organization = { 13. Workshop on Model Design, Verification and
Validation, Saint-Malo (France), 2016-10-03 - 2016-10-03 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2017-00640 },
cin = { 122810 / 120000 },
url = { http://nbn-resolving.de/urn:nbn:de:0074-1713-7 },
}

@inproceedings { Der16,
author = { Dernehl, Christian },
title = { Automatic invariant checking for discrete block diagrams
using Lyapunov functions with sat modulo theory solvers },
booktitle = { 2016 European Control Conference (ECC) : June 29-July 1,
2016, Aalborg, Denmark / [European Control Association (EUCA)] },
publisher = { IEEE },
pages = { 441-446 },
year = { 2016 },
address = { Piscataway, NJ },
organization = { 2016 European Control Conference, Aalborg (Denmark),
2016-06-29 - 2016-07-01 },
doi = { 10.1109/ECC.2016.7810324 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2017-06691 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/696194 },
}

@article { DKK17,
author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski, Stefan
},
title = { Case studies on automated verification with slope boundaries
for block diagrams },
journal = { Computer Languages, Systems & Structures },
publisher = { Elsevier Science },
pages = { 528-543 },
volume = { 54 },
year = { 2017 },
address = { Amsterdam [u.a.] },
issn = { 1477-8424 },
doi = { 10.1016/j.cl.2017.09.001 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-236294 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752271 },
}

@phdthesis { Der19,
```

```
author = { Dernehl, Christian Michael },
othercontributors = { Kowalewski, Stefan and Moormann, Dieter },
title = { Verification of embedded software models by combining
abstract interpretation, symbolic execution and stability analysis },
publisher = { RWTH Aachen University, Department of Computer Science },
school = { RWTH Aachen University },
pages = { 1 Online-Ressource (xxiii, 156 Seiten) : Illustrationen,
Diagramme },
series = { Aachener Informatik-Berichte },
year = { 2019 },
address = { Aachen },
doi = { 10.18154/RWTH-2019-05178 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2019-05178 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/761850/files/761850.pdf },
}
```

```
@inproceedings { DBK+09,
author = { Diab, Hilal and Ben Makhlouf, Ibtissem and Kowalewski,
Stefan and Chávez, Martin and Abel, Dirk },
title = { Control and Safety Analysis of a Platoon under Communication
Constraints },
booktitle = { NE\[S/T\]COC, Sept. 28/29, Stuttgart, Priority Program
1305 Posters S.5 },
pages = { 70-71 },
year = { 2009 },
organization = { NE{S/T}COC, Stuttgart (Germany), 2009-09-28 -
2009-09-29 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-173123 },
cin = { 416610 / 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/100238 },
}
```

```
@inproceedings { DCB+10,
author = { Diab, Hilal and Chávez Grunewald, Martin Guillermo and Ben
Makhlouf, Ibtissem and Abel, Dirk and Kowalewski, Stefan },
title = { A testing platform for cooperative vehicle platoon
controllers },
booktitle = { 13th International IEEE Conference on Intelligent
Transportation Systems : ITSC 2010 ; 19 - 22 September, 2010, Madeira
Island, Portugal ; conference proceedings / IEEE },
publisher = { IEEE },
pages = { 1718-1723 },
year = { 2010 },
address = { Piscataway, NJ },
organization = { 13. International IEEE Conference on Intelligent
Transportation Systems, Madeira Island (Portugal), 2010-09-19 - 2010-09-22
},
}
```

```
doi = { 10.1109/ITSC.2010.5625258 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-189667 },
cin = { 122810 / 416610 / 120000 },
url = { http://publications.rwth-aachen.de/record/118439 },
}

@inproceedings { DBK12,
  author = { Diab, Hilal and Ben Makhlouf, Ibtissem and Kowalewski,
Stefan },
  title = { A Platoon of Vehicles Approaching an Intersection: A Testing
Platform for Safe Intersections },
  booktitle = { 2012 15th International IEEE Conference on Intelligent
Transportation Systems (ITSC) : 16 - 19 Sept. 2012, Anchorage, Alaska, USA
},
  publisher = { IEEE },
  pages = { 1918-1923 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { 15. International IEEE Conference on Intelligent
Transportation Systems, Anchorage (USA), 16-09-2012 - 19-09-2012 },
  doi = { 10.1109/ITSC.2012.6338822 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199932 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/197725 },
}

@phdthesis { Dial5,
  author = { Diab, Hilal },
  othercontributors = { Kowalewski, Stefan and Abel, Dirk },
  title = { Experimental validation and mathematical analysis of
cooperative vehicles in a platoon },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  school = { RWTH Aachen University },
  pages = { X, 131 S. : Ill., graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2015 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-2015-01635 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/465272/files/465272\_source.zip },
}

@inproceedings { DHH+08,
  author = { Drews, Peter and Hesseler, Frank and Hoffmann, Kai and Abel,
Dirk and Schmitz, Dominik and Polzer, Andreas and Kowalewski, Stefan },
  title = { Entwicklung einer Luftpfadregelung am Dieselmotor unter
Ber{"u"}cksichtigung nichtfunktionaler Anforderungen },
```

```

    booktitle = { Steuerung und Regelung von Fahrzeugen und Motoren :
AUTOREG 2008 ; 4. Fachtagung Baden-Baden, 12. und 13. Februar 2008 /
VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik },
    publisher = { VDI-Verl. },
    pages = { 91-102 },
    series = { VDI-Berichte },
    year = { 2008 },
    address = { D{"u"}sseldorf },
    organization = { Steuerung und Regelung von Fahrzeugen und Motoren : 4.
Fachtagung, Baden-Baden (Germany), 2008-02-12 -2 008-02-13 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-170548 },
    cin = { 122810 / 416610 / 120000 },
    url = { http://publications.rwth-aachen.de/record/97317 },
}

```

```

@inproceedings { DHS+08,
    author = { Drews, Peter and He{"ss"}eler, Frank-Josef and Schmitz,
Dominik and Polzer, Andreas and Kowalewski, Stefan and Abel, Dirk },
    title = { Entwicklungsprozess f{"u"}r eine Luftpfadregelung am
Dieselmotor unter Ber{"u"}cksichtigung nichtfunktionaler Anforderungen },
    booktitle = { Moderne Elektronik im Kraftfahrzeug III : Systeme von
morgen - technische Innovationen und Entwicklungstrends ; [28. Tagung
'Elektronik im Kraftfahrzeug' vom Haus der Technik Essen e.V. in M{"u"}nchen
(i.e. Dresden!)] / Bernard B{"a"}ker (Hrsg.) u. 46 Mitautoren },
    publisher = { Expert-Verl. },
    pages = { 167-179 },
    series = { Haus der Technik Fachbuch },
    year = { 2008 },
    address = { Renningen },
    organization = { 28. Tagung 'Elektronik im Kraftfahrzeug', M{"u"}nchen
(Germany) },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-170587 },
    cin = { 122810 / 416610 / 120000 },
    url = { http://publications.rwth-aachen.de/record/97365 },
}

```

```

@inproceedings { DSK09,
    author = { Duels, Ramona and Salewski, Falk and Kowalewski, Stefan },
    title = { A real-time test and simulation environment based on standard
FPGA hardware },
    booktitle = { Proceedings / 2009 Testing: Academic and Industrial
Conference Practice and Research Techniques : TAIC PART 2009 ; 4-6 September
2009 Cumberland Lodge, Windsor, United Kingdom },
    publisher = { IEEE Computer Society },
    pages = { 197-204 },
    year = { 2009 },
    address = { Los Alamitos, Calif },
    organization = { 2009 Testing :Academic and Industrial Conference
Practice and Research Techniques : TAIC PART 2009, Cumberland Lodge, Windsor

```

```
(UK), 2009-09-04 - 2009-09-06 },
  doi = { 10.1109/TAICPART.2009.24 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-197239 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/126992 },
}
```

```
@inproceedings { DF13,
  author = { Dzafic, Dzenan and Franke, Dominik },
  title = { Entwicklung und Evaluation eines Navigationssystems f{"u}r
Elektrorollst{"u}hle },
  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
fachwissenschaftlicher Informatik-Kongress 22. und 23. M{"a}rz 2013 B-IT
Bonn-Aachen International Center for Information Technology, Bonn /
Gesellschaft f{"u}r Informatik (Hrsg.). [Red.: Ludger Porada] },
  publisher = { Gesellschaft f{"u}r Informatik e.V. },
  pages = { 185-188 },
  series = { GI-Edition : lecture notes in informatics },
  year = { 2013 },
  address = { Bonn },
  organization = { Informatiktage 2013, Bonn (Germany), 2013-03-22 -
2013-03-23 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203657 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226146 },
}
```

```
@inproceedings { DF14,
  author = { Dzafic, Dzenan and Franke, Dominik },
  title = { Integration von Informationen {"u}ber die
Bodenbeschaffenheit in das eNav-System : [Zusammenfassung der ] Masterarbeit
},
  booktitle = { Informatiktage 2014 / Fachwissenschaftlicher Informatik-
Kongress, 27. und 28. M{"a}rz 2014, Hasso-Plattner-Institut der
Universit{"a}t Potsdam ... },
  publisher = { Ges. f{"u}r Informatik },
  pages = { 123-126 },
  series = { GI-Edition : lecture notes in informatics / Seminars },
  year = { 2014 },
  address = { Bonn },
  organization = { Informatiktage 2014 / Fachwissenschaftlicher
Informatik-Kongress, Potsdam (Germany), 2014-03-27 - 2014-03-28 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-204904 },
  cin = { 120000 / 122810 },
  url = { http://publications.embedded.rwth-aachen.de/file/59 },
}
```

```
@inproceedings { DFB+13,
```

```
author = { Dzafic, Dzenan and Franke, Dominik and Baumeister, Danni and
Kowalewski, Stefan },
title = { Modifikation des A*-Algorithmus f{"u}r energieeffizientes
3D-Routing },
booktitle = { Angewandte Geoinformatik 2013 : Beitr{"a}ge zum 25.
AGIT-Symposium Salzburg / Strobl ; Blaschke ; Griesebner ; Zagel (Hrsg.) },
publisher = { Wichmann },
pages = { 414-423 },
year = { 2013 },
address = { Berlin ; Offenbach },
organization = { 25. AGIT-Symposium Salzburg, Salzburg (Austria) },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-205272 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/228156 },
}

@inproceedings { DFB+14,
author = { Dzafic, Dzenan and Franke, Dominik and Baumeister, Danni and
Kowalewski, Stefan },
title = { Integration von Bodenbelagsinformationen zum
energieeffizienten Routen von Elektrorollst{"u}hlen },
booktitle = { Angewandte Geoinformatik 2014 : Beitr{"a}ge zum 26.
AGIT-Symposium Salzburg / Strobl/ Blaschke/Griesebner/Zagl (Hrsg.) },
publisher = { Wichmann },
pages = { 451-460 },
year = { 2014 },
address = { Berlin [u.a.] },
organization = { 26. AGIT-Symposium, Salzburg (Austria) },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-205745 },
cin = { 120000 / 122810 },
url = { http://publications.embedded.rwth-aachen.de/file/5c },
}

@inproceedings { DBB+14,
author = { Dzafic, Dzenan and Bitsch, J{\'o} {\'A}gila and Baumeister, Danni
and Kowalewski, Stefan and Wehrle, Klaus },
title = { Towards an Indoor Traffic Report - Requirements for Dynamic
Route Planning for Wheelchair Users },
booktitle = { International Conference on Indoor Positioning and Indoor
Navigation (IPIN), 2012 : 13 - 15 Nov. 2012, Sydney, Australia ; conference
proceedings / organized by UNSW Australia, the University of New South
Wales, Australia. Ed. by Chris Rizos ... },
publisher = { IEEE },
year = { 2014 },
address = { Piscataway, NJ },
organization = { 5. International Conference on Indoor Positioning and
Indoor Navigation, Busan (South Korea), 2014-10-27 - 2014-10-30 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-2015-00727 },
```

```
cin = { 122810 / 121710 / 120000 },
url = { http://publications.rwth-aachen.de/record/462817 },
}

@inproceedings { DKS+16,
  author = { Dzafic, Dzenan and Klein-Ridder, Daniel and Schoonbrood,
Pierre and Franke, Dominik and Kowalewski, Stefan },
  title = { Der Bodenbelag-Detektor des eNav-Systems },
  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber: Prof.
Dr. Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr.
Thomas Blaschke },
  publisher = { Wichmann, eine Marke der VDE Verlag GmbH },
  pages = { 318-327 },
  series = { AGIT : Journal f{"u"}r Angewandte Geoinformatik },
  year = { 2016 },
  address = { Berlin },
  organization = { 28. AGIT-Symposium, Salzburg (Austria), 2016-07-06 -
2016-07-08 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12052 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680869 },
}

@inproceedings { DLS+16,
  author = { Dzafic, Dzenan and Lahr, Florian and Schoonbrood, Pierre and
Franke, Dominik and Kowalewski, Stefan },
  title = { Das Barrierenerkennungssystem von eNav },
  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber: Prof.
Dr. Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr.
Thomas Blaschke },
  publisher = { Wichmann, eine Marke der VDE Verlag GmbH },
  pages = { 298-307 },
  series = { AGIT : Journal f{"u"}r Angewandte Geoinformatik },
  year = { 2016 },
  address = { Berlin },
  organization = { 28. AGIT-Symposium, Salzburg (Austria), 2016-07-06 -
2016-07-08 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12055 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680872 },
}

@article { DKF+15,
  author = { Dzafic, Dzenan and Klug, Stefan and Franke, Dominik and
Kowalewski, Stefan },
  title = { Routing {"u"}ber Fl{"a"}chen mit SpiderWebGraph },
  journal = { AGIT : Journal f{"u"}r Angewandte Geoinformatik },
  pages = { 516-522 },
  volume = { 1 },
```

```

    year = { 2015 },
    issn = { 2509-713X },
    isbn = { 978-87907-557-7 },
    organization = { Journal f{"u"}r angewandte Geoinformatik 1-2015 },
    doi = { 10.14627/537557071 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2017-00133 },
    cin = { 122810 / 120000 },
    url = {
https://gispoint.de/fileadmin/user_upload/paper_gis_open/AGIT_2015/537557071
.pdf },
}

```

```

@inproceedings { DSF+17,
    author = { Dzafic, Dzenan and Schoonbrood, Pierre and Franke, Dominik
and Kowalewski, Stefan },
    title = { eNav: A Suitable Navigation System for the Disabled },
    booktitle = { Ambient Assisted Living : 9. AAL-Kongress, Frankfurt/M,
Germany, April 20 - 21, 2016 / edited by Reiner Wichert, Beate Mand },
    publisher = { Springer International Publishing ; Imprint: Springer },
    pages = { 133-150 },
    series = { Advanced Technologies and Societal Change },
    year = { 2017 },
    address = { Cham ; s.l. },
    organization = { 9. Congress on Ambient Assisted Living, Frankfurt/M
(Germany), 2016-04-20 - 2016-04-21 },
    doi = { 10.1007/978-3-319-52322-4_9 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2018-222675 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/720210 },
}

```

```

@article { DWS+17,
    author = { Dzafic, Dzenan and Wagener, Nicolas and Schoonbrood, Peter
and Franke, Dominik and Kowalewski, Stefan },
    title = { Multimodales Dynamisches Routen mit eNav },
    journal = { AGIT : Journal f{"u"}r angewandte Geoinformatik },
    publisher = { Wichmann },
    pages = { 278-287 },
    volume = { 2017 },
    number = { 3 },
    year = { 2017 },
    address = { Berlin ; Offenbach },
    issn = { 2509-713X },
    isbn = { 978-3-87907-633-8 },
    organization = { 29. Symposium f{"u"}r Angewandte Geoinformatik,
Salzburg (Austria), 2017-07-05 - 2017-07-07 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-236300 },
    cin = { 122810 / 120000 / 414110 },
}

```

```
url = { http://publications.rwth-aachen.de/record/752276 },
}

@inproceedings { DWS+17a,
  author = { Dzafic, Dzenan and Wagener, Nicolas and Schoonbrood, Peter
and Franke, Dominik and Kowalewski, Stefan },
  title = { Multimodal Dynamic Routing for Wheelchairs and Pedestrians },
  booktitle = { Proceedings International Conference on Intelligent
Transport Systems in Theory and Practice, mobil.TUM 2017 },
  publisher = { Elsevier B.V. },
  pages = { 1-10 },
  year = { 2017 },
  organization = { International Conference on Intelligent Transport
Systems in Theory and Practice, M{"u"}nchen (Germany), 2017-07-04 -
2017-07-05 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236301 },
  cin = { 122810 / 120000 / 414110 },
  url = { http://publications.rwth-aachen.de/record/752277 },
}

@inproceedings { DCC20,
  author = { Dzafic, Dzenan and Candiotti, Jorge L. and Cooper, Rory A.
},
  title = { Improving wheelchair route planning through instrumentation
and navigation systems },
  booktitle = { 42nd Annual International Conferences of the IEEE
Engineering in Medicine and Biology Society in conjunction with the 43rd
Annual Conference of the Canadian Medical and Biological Engineering Society
: July 20-24, 2020 via the EMBS Virtual Academy / IEEE, EMB ; conference
chairs: Mohamad Sawan (Westlake University), Carolyn McGregor AM (Ontario
Tech University), Atam Dhawan (NJIT) },
  publisher = { IEEE },
  pages = { 5737-5740 },
  year = { 2020 },
  address = { Piscataway, NJ },
  organization = { 42. Annual International Conference of the IEEE
Engineering in Medicine and Biology Society, online, 2020-07-20 - 2020-07-24
},
  doi = { 10.1109/EMBC44109.2020.9176481 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2021-02927 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/816058 },
}

@article { EEC+22,
  author = { Edgworth, Eileen and Ernst, Lisa and Czigany, Zoltan and
Saritas, Turgay and Zarnitz, Laura Sophie and Wiartalla, Marc Oliver and
Boor, Peter and Buhl, Eva Miriam and Rossaint, Rolf and Tolba, René H. and
Doorschodt, Benedict Marie and Fabry, Gregor and Bleilevens, Christian },
```

```

    title = { HBOC-301 in Porcine Kidney Normothermic Machine Perfusion and
the Effect of Vitamin C on Methemoglobin Formation },
    journal = { Antioxidants : open access journal },
    publisher = { MDPI },
    pages = { [1]-14 },
    volume = { 11 },
    number = { 7 },
    year = { 2022 },
    address = { Basel },
    issn = { 2076-3921 },
    doi = { 10.18154/RWTH-CONV-249315 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-249315 },
    cin = { 527000-2533000-2 / 122810 / 120000 / 931310 / 932610 },
    url = {
http://publications.rwth-aachen.de/record/853806/files/853806.pdf },
}

```

EBK11,

```

    author = { Engelmann, Francis and Borchers, Jan Oliver and Kowalewski,
Stefan },
    title = { FabScan - Affordable 3D Laser Scanning of Physical Objects },
    pages = { XXI, 67 Seiten : Illustrationen, grafische Darstellungen },
    year = { 2011 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)2 },
    reportid = { RWTH-2016-10665 },
    cin = { 122710 / 120000 / 122810 },
    url = {
http://hci.rwth-aachen.de/materials/publications/engelmann2011a.pdf },
}

```

@article { FDG+19,

```

    author = { Fabry, Gregor and Doorschodt, Benedict M. and Grzanna, Tim
and Boor, Peter and Elliott, Aaron Rainer and Stollenwerk, André and Tolba,
René H. and Rossaint, Rolf and Bleilevens, Christian },
    title = { Cold Preflush of Porcine Kidney Grafts Prior to Normothermic
Machine Perfusion Aggravates Ischemia Reperfusion Injury },
    journal = { Scientific reports },
    publisher = { Macmillan Publishers Limited, part of Springer Nature },
    pages = { 9 Seiten },
    volume = { 9 },
    year = { 2019 },
    address = { [London] },
    issn = { 2045-2322 },
    doi = { 10.18154/RWTH-2019-08778 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2019-08778 },
    cin = { 122810 / 120000531020-3533000-3533000-2533540-2 / 9770208 /
9790209527000-2 },
    url = {

```

```

http://publications.rwth-aachen.de/record/767376/files/767376.pdf },
  illkey = { BMBF-031L0134B - Alternativmethoden - Verbund: AutoMock -
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{"u"}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{"a"}tstestung von Membranoxygenatoren und zur
Transplantationssimulation (BMBF-031L0134B) },
}

@inbook { FHS+09,
  author = { Fehnker, Ansgar and Huuck, Ralf and Schlich, Bastian and
Tapp, Michael },
  title = { Automatic bug detection in microcontroller software by static
program analysis },
  booktitle = { SOFSEM 2009: theory and practice of computer science :
35th Conference on Current Trends in Theory and Practice of Computer
Science, Špindleruv Mlýn, Czech Republic, January 24 - 30, 2009 ;
proceedings / Mogens Nielsen ... (eds.) },
  publisher = { Springer },
  pages = { 267-278 },
  volume = { 5404 },
  series = { Lecture notes in computer science },
  year = { 2009 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-540-95891-8_26 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-095395 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/83459 },
}

@article { FLS+23,
  author = { Fischbach, Anna and Lamberti, Michael and Simons, Julia
Alexandra and Wrede, Erik and Thei{"ss"}en, Alexander and Winnersbach,
Patrick and Rossaint, Rolf and Stollenwerk, André and Bleilevens, Christian
},
  title = { Early Blood Clot Detection Using Forward Scattering Light
Measurements Is Not Superior to Delta Pressure Measurements },
  journal = { Biosensors : open access journal },
  publisher = { MDPI },
  pages = { [1]-13 },
  volume = { 13 },
  number = { 12 },
  year = { 2023 },
  address = { Basel },
  issn = { 2079-6374 },
  doi = { 10.3390/bios13121012 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2023-11293 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/974400/files/974400.pdf },

```

```

    illkey = { Sicherheits- und Automatisierungskonzepte f{"u}r
k{"u}nstliche implantierbare Lungen - SmartLungControl (447729163) },
}

@article { FFK+21,
  author = { Fonck, Simon and Fritsch, Sebastian Johannes and Kowalewski,
Stefan and Hensen, Raimund and Stollenwerk, André },
  title = { Algorithmic distinction of ARDS and Heart Failure in ICU data
from medical embedded systems by using a computer model },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  pages = { 135-140 },
  volume = { 54 },
  number = { 4 },
  year = { 2021 },
  address = { Frankfurt ; M{"u}nchen [u.a.] },
  issn = { 2405-8963 },
  organization = { 4. IFAC Conference on Embedded Systems, Computational
Intelligence and Telematics in Control, Valenciennes (France), 2021-07-05 -
2021-07-07 },
  doi = { 10.1016/j.ifacol.2021.10.023 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2021-10204 },
  cin = { 122810 / 120000533000-2533000-2 },
  url = {
http://publications.rwth-aachen.de/record/834987/files/834987.pdf },
  illkey = { SMITH - Medizininformatik-Konsortium (BMBF-01ZZ1803K) },
}

@inproceedings { FD17,
  author = { Fonck, Simon Ansgar Martin and Deserno, Thomas },
  title = { Modeling an IT Support for Handling Serious Adverse Events in
Clinical Trials },
  booktitle = { MEDINFO 2017 : precision healthcare through informatics :
proceedings of the 16th World Congress on Medical and Health Informatics /
edited by Adi V. Gundlapalli (University of Utah/VA Salt Lake City Health
Care System), Marie-Christine Jaulent (DR Inserm) and Dongsheng Zhao
(Academy of Military Medical Science of China) },
  publisher = { IOS Press },
  pages = { 1262-1262 },
  series = { Studies in health technology and informatics },
  year = { 2017 },
  address = { Amsterdam },
  organization = { 16. World Congress on Medical and Health Informatics,
Hangzhou (Peoples R China), 2017-08-21 - 2017-08-25 },
  doi = { 10.3233/978-1-61499-830-3-1262 },
  typ = { PUB:(DE-HGF)1 },
  reportid = { RWTH-CONV-222186 },
  cin = { 526500-2 / 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/716886/files/716886.pdf },

```

```
}

@article { FFN+23,
  author = { Fonck, Simon Ansgar Martin and Fritsch, Sebastian and
Nottenk{\a}mper, Gina and Stollenwerk, André },
  title = { Implementation of ResNet-50 for the Detection of ARDS in
Chest X-Rays using transfer-learning },
  journal = { Proceedings on automation in medical engineering },
  publisher = { Infinite Science GmbH },
  pages = { 2 Seiten },
  volume = { 2 },
  number = { 1 },
  year = { 2023 },
  address = { L{\u}beck },
  organization = { 16. Interdisziplin{\a}res Symposium AUTOMED -
Automatisierungstechnische Verfahren f{\u}r die Medizintechnik, Gie{\ss}en
(Germany), 2023-03-30 - 2023-03-31 },
  doi = { 10.18154/RWTH-2023-03291 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2023-03291 },
  cin = { 122810 / 120000533000-3 / 931210 },
  url = { https://doi.org/10.18416/AUTOMED.2023 },
}

@inproceedings { For13,
  author = { F{\o}rster, Marc },
  title = { Conditional software specification & assurance : A practical
assessment of contract-based approaches },
  booktitle = { 2013 IEEE International Symposium on Software Reliability
Engineering workshops (ISSREW 2013) : Pasadena, California, USA, 4 - 7
November 2013 },
  publisher = { IEEE },
  pages = { 36-36 },
  year = { 2013 },
  address = { Piscataway, NJ },
  organization = { IEEE International Symposium on Software Reliability
Engineering workshops, Pasadena (USA), 04-11-2013 - 07-11-2013 },
  doi = { 10.1109/ISSREW.2013.6688860 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-202934 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/225271 },
}

@inproceedings { For14,
  author = { F{\o}rster, Marc },
  title = { Evaluating Embedded-Software Specifications -- Quantitative
and Structured Assessment of Declarative Interface Descriptions },
  booktitle = { IEEE International Symposium on Software Reliability
Engineering workshops (ISSREW), 2014 : 3 - 6 Nov. 2014, Naples, Italy ;
proceedings },
```

```

    publisher = { IEEE },
    pages = { 142-143 },
    year = { 2014 },
    address = { Piscataway, NJ },
    organization = { 2014 IEEE International Symposium on Software
Reliability Engineering Workshops, Naples (Italy), 2014-11-03 - 2014-11-06
},
    doi = { 10.1109/ISSREW.2014.74 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2015-00716 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/462802 },
}

@techreport { FAK+14,
    author = { F{"o"}rster, Marc and Auerswald, Marko and Keldenich,
Phillip and Kowalewski, Stefan },
    title = { Semantic interfaces for automotive software components:
exemplary development & validation of a practical specification language },
    pages = { 1-100 },
    year = { 2014 },
    typ = { PUB:(DE-HGF)29 },
    reportid = { RWTH-CONV-236315 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752291 },
}

@techreport { For12,
    author = { F{"o"}rster, Marc },
    title = { Dependable reuse & guarded integration of automotive software
components - approaches to conditional specification & assurance },
    pages = { 1-78 },
    year = { 2012 },
    typ = { PUB:(DE-HGF)29 },
    reportid = { RWTH-CONV-236319 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752295 },
}

@inproceedings { FK10,
    author = { Franke, Dominik and Kowalewski, Stefan },
    title = { Verifikation der Java-Echtzeitf{"a"}higkeit f{"u"}r den
Einsatz in zeitkritischen Systemen },
    booktitle = { Informatiktage 2010 : Fachwissenschaftlicher Informatik-
Kongress, 19. und 20. M{"a"}rz 2010, B-IT Bonn-Aachen International Center
for Information Technolgy in Bonn / Gesellschaft f{"u"}r Informatik (Hrsg.).
[Red.: Ludger Porada] },
    publisher = { Ges. f{"u"}r Informatik e.V. (GI) },
    pages = { 165-168 },
    series = { GI-Edition : Seminars },
    year = { 2010 },

```

```
    address = { Bonn },
    organization = { Informatiktage 2010 : Fachwissenschaftlicher
Informatik-Kongress, Bonn-Aachen (Germany), 2010-03-19 - 2010-03-20 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173257 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/100437 },
}

@inproceedings { FEK12,
    author = { Franke, Dominik and Elsemann, Corinna and Kowalewski, Stefan
},
    title = { Reverse Engineering and Testing Service Life Cycles of Mobile
Platforms },
    booktitle = { 2nd DEXA Workshop on Information Systems for Situation
Awareness and Situation Management (ISSASiM) : 3. - 7. September, Wien },
    publisher = { IEEE Computer Society },
    pages = { 16-20 },
    year = { 2012 },
    organization = { 2. DEXA Workshop on Information Systems for Situation
Awareness and Situation Management, Vienna (Austria), 2012-09-03 -
2012-09-07 },
    doi = { 10.1109/DEXA.2012.40 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-182860 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/110850 },
}

@inproceedings { FDW+11,
    author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten and
Kowalewski, Stefan },
    title = { Entwicklung eines mobilen Navigationssystems f{"u}r
Elektrofahrzeuge auf Basis von OpenStreetMap-Daten },
    booktitle = { Anwenderkonferenz f{"u}r Freie und Open Source Software
f{"u}r Geoinformationssysteme : FOSSGIS 2011 ; Heidelberg, 5. - 7. April,
2011 },
    pages = { 92-99 },
    year = { 2011 },
    address = { Heidelberg },
    organization = { Anwenderkonferenz f{"u}r Freie und Open Source
Software f{"u}r Geoinformationssysteme, Heidelberg (Germany), 2011-04-05 -
2011-04-07 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-194738 },
    cin = { 122810 / 120000 },
    url = {
http://www.mapmedia.de/jthomsen/FOSSGIS\_Tagungsband/2011\_FOSSGIS\_Tagungsband
.pdf },
}
```

```
@inproceedings { FW11,
  author = { Franke, Dominik and Weise, Carsten },
  title = { Providing a Software Quality Framework for Testing of Mobile
Applications },
  booktitle = { Proceedings / Fourth IEEE International Conference on
Software Testing, Verification, and Validation ; Berlin, Germany, 21-25
March 2011 / Spons. by IEEE Computer Society. Ed. by Lisa O'Conner },
  publisher = { IEEE },
  pages = { 431-434 },
  year = { 2011 },
  address = { Piscataway, NJ },
  organization = { 4. IEEE International Conference on Software Testing,
Verification, and Validation, Berlin (Germany), 2011-03-21 - 2011-03-25 },
  doi = { 10.1109/ICST.2011.18 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196799 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/126463 },
}

@inproceedings { FKW+12,
  author = { Franke, Dominik and Kowalewski, Stefan and Weise, C. and
Prakobkosol, N. },
  title = { Testing Conformance of Life Cycle Dependent Properties of
Mobile Applications },
  booktitle = { 2012 IEEE Fifth International Conference on Software
Testing, Verification and Validation (ICST 2012) : Montréal, Québec, Canada,
17 - 21 April 2012 ; [proceedings ; including workshop papers] / [IEEE
Computer Society] },
  publisher = { IEEE },
  pages = { 241-250 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { 2012 IEEE Fifth International Conference on Software
Testing, Verification and Validation, Montreal (Canada), 2012-04-17 -
2012-04-21 },
  doi = { 10.1109/ICST.2012.104 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198895 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/128852 },
}

@inproceedings { FTK12,
  author = { Franke, Dominik and Tobias, Royé and Kowalewski, Stefan },
  title = { AndroLIFT: A Tool for Android Application Life Cycles },
  booktitle = { 4th International Conference on Advances in System
Testing and Validation Lifecycle (VALID) },
  publisher = { Xpert },
  pages = { 28-33 },
  year = { 2012 },
```

```
organization = { 4. International Conference on Advances in System
Testing and Validation Lifecycle },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-199950 },
cin = { 122810 / 120000 },
url = {
http://www.thinkmind.org/index.php?view=article&articleid=valid_2012_1_50_40
107 },
}
```

```
@inproceedings { FK14,
author = { Franke, Dominik and Kowalewski, Stefan },
title = { Concept and Experiences on Using a Wiki-Based System for
Software-Related Seminar Papers },
booktitle = { Information technology and open source: applications for
education, innovation, and sustainability : SEFM 2012 Satellite Events,
InSuEdu, MoKMaSD, and OpenCert, Thessaloniki, Greece, October 1 - 2, 2012 ;
revised selected papers / Antonio Cerone; Donatella Persico; Sara Fernandes;
Alexeis Garcia-Perez; Panagiotis Katsaros; Siraj Ahmed Shaikh; Ioannis
Stamelos (eds.) },
publisher = { Springer },
pages = { 140-146 },
series = { Lecture notes in computer science },
year = { 2014 },
address = { Berlin [u.a.] },
organization = { Information technology and open source: applications
for education, innovation, and sustainability, Thessanloniki (Greece),
2012-10-01 - 2012-10-02 },
doi = { 10.1007/978-3-642-54338-8_11 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-202914 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/225247 },
}
```

```
@inproceedings { FHK13,
author = { Franke, Dominik and Hempel, Stefan and Kowalewski, Stefan },
title = { Specifying Life Cycle Requirements in a Natural-like Language
and ptLTL },
booktitle = { 2013 IEEE Sixth International Conference on Software
Testing, Verification and Validation Workshops (ICSTW), Luxembourg 18-22
March 2013 },
publisher = { IEEE Computer Society },
pages = { 120-121 },
year = { 2013 },
address = { Piscataway, NJ },
organization = { 2013 IEEE Sixth International Conference on Software
Testing, Verification and Validation Workshops (Luxembourg), 2013-03-18 -
2013-03-22 },
doi = { 10.1109/ICSTW.2013.72 },
typ = { PUB:(DE-HGF)8 },
```

```

    reportid = { RWTH-CONV-203748 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/226262 },
}

@inproceedings { FEW+11,
    author = { Franke, Dominik and Elsemann, Corinna and Weise, Carsten and
Kowalewski, Stefan },
    title = { Reverse Engineering of Mobile Application Lifecycles },
    booktitle = { 2011 18th Working Conference on Reverse Engineering (WCRE
2011) : Limerick, Ireland, 17 - 20 October 2011 ; [proceedings] /
[Technically co-sponsored by IEEE Computer Society. Sponsored by
Reengineering Forum; IEEE-CS Technical Council on Software Engineering].
Ed.: Martin Pinzger },
    publisher = { IEEE },
    pages = { 283-292 },
    year = { 2011 },
    address = { Piscataway, NJ },
    organization = { 18. Working Conference on Reverse Engineering, Limrick
(Ireland), 2011-10-17 - 2011-10-20 },
    doi = { 10.1109/WCRE.2011.42 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-205156 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/227967 },
}

@techreport { FKL15,
    author = { Franke, Dominik and Kowalewski, Stefan and Lichter, Horst },
    title = { Testing life cycle-related properties of mobile applications
},
    publisher = { Shaker },
    school = { RWTH Aachen University },
    pages = { X, 114 S. : Ill., graph. Darst. },
    volume = { 2015,02 },
    number = { AIB-2015-02 },
    series = { Achener Informatik-Berichte },
    year = { 2015 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2015-01925 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/466122/files/466122.pdf },
}

@inproceedings { FDB+12,
    author = { Franke, Dominik and Dzafic, Dzenan and Baumeister, Danni and
Kowalewski, Stefan },
    title = { Energieeffizientes Routing f{"u}r Elektrorollst{"u}hle },
    booktitle = { 13. Achener Kolloquium Mobilit{"a"}t und Stadt

```

```
(AMUS/ACMOTe) },
  publisher = { RWTH Aachen },
  pages = { 65-68 },
  year = { 2012 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236333 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752300 },
}

@inproceedings { FSK12,
  author = { Franke, Dominik and Schommer, John and Kowalewski, Stefan },
  title = { Softwarequalit{\'a}t in der Mobilen Welt: Testen von
Lebenszyklen Mobiler Applikationen },
  booktitle = { Tagungsband - Embedded Software Engineering Kongress 2012
: 3. bis 7. Dezember 2012, Sindelfingen },
  publisher = { Elektronikpraxis, Vogel Business Media GmbH & Co. KG -
M{"u"}nchen \: MicroConsult Microelectronics Consulting & Training GmbH },
  pages = { 478-482 },
  year = { 2012 },
  address = { W{"u"}rzburg },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236334 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752301 },
}

@inproceedings { FKW12,
  author = { Franke, Dominik and Kowalewski, Stefan and Weise, Carsten },
  title = { A Mobile Software Quality Model },
  booktitle = { 12th International Conference on Quality Software (QSIC),
2012 : Xi'an, Shaanxi, China, 27 - 29 August 2012 ; proceedings; [including
workshop papers] / technical sponsor: IEEE Reliability Society. Ed. by
Antony Tang ... },
  publisher = { IEEE },
  pages = { 154-157 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { 12. International Conference on Quality Software,
Xi'an, Shaanxi (Peoples R China), 2012-08-27 - 2012-08-29 },
  doi = { 10.1109/QSIC.2012.49 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236328 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752303 },
}

@inproceedings { FDW+11a,
  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten and
Kowalewski, Stefan },
  title = { Konzept eines Mobilen OSM-Navigationssystems f{"u"}r
```

```

Elektrofahrzeuge },
  booktitle = { Angewandte Geoinformatik 2011 - Beitr{"a}ge zum 23.
AGIT-Symposium (AGIT) },
  publisher = { Wichmann Verlag },
  pages = { 148-157 },
  year = { 2011 },
  organization = { Angewandte Geoinformatik 2011 - 23. AGIT-Symposium },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236326 },
  cin = { 122810 / 120000 },
  url = {
http://gispoint.de/fileadmin/user_upload/paper_gis_open/537508024.pdf },
}

@inproceedings { FFL20,
  author = { Friedrichs, Torben and F{"o}gen, Konrad and Lichter, Horst
},
  title = { A Comparison Infrastructure for Fault Characterization
Algorithms },
  booktitle = { 2020 IEEE 13th International Conference on Software
Testing, Verification and Validation workshops : ICSTW 2020 : proceedings :
23-27 March 2020, Porto, Portugal / publisher: IEEE },
  publisher = { IEEE },
  pages = { 201-210 },
  year = { 2020 },
  address = { Piscataway, NJ },
  organization = { 9. Workshop on Combinatorial Testing, online,
2020-10-24 - 2020-10-24 },
  doi = { 10.1109/ICSTW50294.2020.00042 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-242798 },
  cin = { 121620 / 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/808670 },
}

@inproceedings { GDF+12,
  author = { Gathmann, Felix and Dernehl, Christian Michael and Franke,
Dominik and Kowalewski, Stefan },
  title = { An integrated vision aided GPS/INS Navigation System for
ultra-low-cost MAVs },
  booktitle = { Proceedings / IMAV 2012 : Braunschweig, Germany, 03 - 06
July 2012 / Deutsche Gesellschaft f{"u}r Ortung und Navigation },
  publisher = { Deutsche Gesellschaft f{"u}r Ortung und Navigation },
  pages = { 1-8 },
  year = { 2012 },
  address = { Bonn },
  organization = { International Micro Air Vehicle Conference and Flight
Competition, Braunschweig (Germany), 2012-07-03 - 2012-07-06 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236329 },
  cin = { 122810 / 120000 },

```

```
url = { http://publications.rwth-aachen.de/record/752304 },
}

@inproceedings { GKS+13,
  author = { Gerlitz, Thomas and Kalkov, Igor and Schommer, John F. and
  Franke, Dominik and Kowalewski, Stefan },
  title = { Non-Blocking Garbage Collection for Real-Time Android },
  booktitle = { 11th International Workshop on Java Technologies for
  Real-time and Embedded Systems : JTRES 2013 ; 9-10 October 2013, Karlsruhe,
  Germany },
  publisher = { ACM },
  pages = { 108-117 },
  series = { ACM Digital Library },
  year = { 2013 },
  address = { New York, NY },
  organization = { Java-Technologien f{"u"}r Echtzeit- und eingebettete
  Systeme, Karlsruhe (Germany), 2013-10-09 - 2013-10-10 },
  doi = { 10.1145/2512989.2512999 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-202515 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/224782 },
}

@inproceedings { GTD15,
  author = { Gerlitz, Thomas and Tran, Quang Minh and Dziobek, Christian
  },
  title = { Detection and Handling of Model Smells for MATLAB/Simulink
  Models },
  booktitle = { Modelling in automotive software engineering : MASE 2015
  : proceedings of the International Workshop on Modelling in Automotive
  Software Engineering, co-located with ACM/IEEE 18th International Conference
  on Model Driven Engineering Languages and Systems (MODELS 2015) : Ottawa,
  Canada, September 27, 2015 / edited by Michal Antkiewicz, Joanne Atlee,
  Juergen Dingel, Ramesh S. },
  publisher = { RWTH Aachen },
  pages = { 13-22 },
  series = { CEUR Workshop Proceedings },
  year = { 2015 },
  address = { Aachen, Germany },
  organization = { International Workshop on Modelling in Automotive
  Software Engineering, Ottawa (Canada), 2015-09-27 - 2015-09-27 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-03745 },
  cin = { 122810 / 120000 },
  url = { http://ceur-ws.org/Vol-1487/MASE\_2015\_paper\_13.pdf },
}

@inproceedings { GK16,
  author = { Gerlitz, Thomas and Kowalewski, Stefan },
  title = { Architectural Analysis of MATLAB/Simulink Models with art
```

```
shop },
    booktitle = { WICSA 2016 : 2016 13th Working IEEE/IFIP Conference on
Software Architecture : proceedings / Henry Muccini and K. Eric Harper,
WICSA program chairs },
    publisher = { IEEE },
    pages = { 307-310 },
    year = { 2016 },
    address = { Piscataway, NJ },
    organization = { 13. Working IEEE/IFIP Conference on Software
Architecture, Venice (Italy), 2016-04-05 - 2016-04-08 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207906 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/573826 },
}

@inproceedings { GHD+16,
    author = { Gerlitz, Thomas and Hansen, Norman and Dernehl, Christian
and Kowalewski, Stefan },
    title = { artshop: A Continuous Integration and Quality Assessment
Framework for Model-Based Software Artifacts },
    booktitle = { [12. Dagstuhl-Workshop Modelbasierte Entwicklung
eingebetteter Systeme (MBEES) / Michaela Huhn (Ostfalia Hochschule –
Wolfenb{\u}ttel, DE), Matthias Riebisch (Universit{\a}t Hamburg, DE),
Bernhard Sch{\a}tz (fortiss GmbH – M{\u}nchen, DE)] },
    publisher = { fortiss Technischer Bericht },
    pages = { 13-22 },
    year = { 2016 },
    organization = { Modellbasierte Entwicklung eingebetteter Systeme,
Dagstuhl (Germany), 2016-03-30 - 2016-04-01 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-207908 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/573828 },
}

@inproceedings { GSK15,
    author = { Gerlitz, Thomas and Schake, Stefan and Kowalewski, Stefan },
    title = { Duplikatserkennung und Refactoring in Matlab/Simulink-
Modellen },
    booktitle = { Tagungsband Dagstuhl-Workshop MBEES: Modelbasierte
Entwicklungeingebetteter Systeme XI / Matthias Riebisch, Michaela Huhn, Jan
Philipps, Bernhard Sch{\a}tz },
    pages = { 17-27 },
    year = { 2015 },
    organization = { Dagstuhl-Workshop MBEES, Dagstuhl (Germany),
2015-03-22 - 2015-03-25 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-207909 },
    cin = { 122810 / 120000 },
    url = { http://publications.embedded.rwth-aachen.de/file/60 },
```

```
}

@inproceedings { GK16a,
  author = { Gerlitz, Thomas and Kowalewski, Stefan },
  title = { Architectural Analysis of MATLAB/Simulink Models with Artshop
},
  booktitle = { WICSA 2016 : 2016 13th Working IEEE/IFIP Conference on
Software Architecture : proceedings / Henry Muccini and K. Eric Harper,
WICSA program chairs },
  publisher = { IEEE },
  pages = { 307-310 },
  year = { 2016 },
  address = { Piscataway, NJ },
  organization = { 13. Working IEEE/IFIP Conference on Software
Architecture, Venice (Italy), 2016-04-05 - 2016-04-08 },
  doi = { 10.1109/WICSA.2016.54 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-01123 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/682945 },
}

@inproceedings { GK16b,
  author = { Gerlitz, Thomas and Kowalewski, Stefan },
  title = { Flow Sensitive Slicing for MATLAB/Simulink Models },
  booktitle = { WICSA 2016 : 2016 13th Working IEEE/IFIP Conference on
Software Architecture : proceedings / Henry Muccini and K. Eric Harper,
WICSA program chairs },
  publisher = { IEEE },
  pages = { 81-90 },
  year = { 2016 },
  address = { Piscataway, NJ },
  organization = { 13. Working IEEE/IFIP Conference on Software
Architecture, Venice (Italy), 2016-04-05 - 2016-04-08 },
  doi = { 10.1109/WICSA.2016.23 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-01171 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/682999 },
}

@phdthesis { Ger17,
  author = { Gerlitz, Thomas },
  othercontributors = { Kowalewski, Stefan and Schaefer, Ina },
  title = { Incremental Integration and Static Analysis of Model-Based
Automotive Software Artifacts },
  publisher = { RWTH Aachen University, Department of Computer Science },
  school = { RWTH Aachen University },
  pages = { 1 Online-Ressource (xv, 191 Seiten) : Diagramme },
  series = { Aachener Informatik Berichte },
  year = { 2017 },
```

```
    address = { Aachen },
    doi = { 10.18154/RWTH-2017-08881 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2017-08881 },
    cin = { 120000 / 122810 },
    url = {
http://publications.rwth-aachen.de/record/706814/files/706814.pdf },
}

@inproceedings { GTN+16,
    author = { G{"o}be, Florian and Timmermanns, Thomas and Ney, Oliver
and Kowalewski, Stefan },
    title = { Synthesis Tool for Automation Controller Supervision },
    booktitle = { 2016 13th International Workshop on Discrete Event
Systems (WODES) : May 30-June 1, 2016, Xi'an, China / edited by Christos G.
Cassandras, Alessandro Giua, Zhiwu Li ; sponsored by IEEE - Control Systems
Society },
    publisher = { IEEE },
    pages = { 424-431 },
    year = { 2016 },
    address = { Piscataway, NJ },
    organization = { 13. International Workshop on Discrete Event Systems
(WODES), Xi'an (Peoples R China), 2016-05-30 - 2016-06-01 },
    doi = { 10.1109/WODES.2016.7497883 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2016-11199 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/679437 },
}

@inproceedings { GNK16,
    author = { G{"o}be, Florian and Ney, Oliver and Kowalewski, Stefan },
    title = { Reusability and Modularity of Safety Specifications for
Supervisory Control },
    booktitle = { 2016 IEEE 21st International Conference on Emerging
Technologies and Factory Automation (ETFA) : September 6-9, 2016 Berlin,
Germany / IEEE, IES, Fraunhofer IOSB-INA, InIT },
    publisher = { IEEE },
    pages = { 1-8 },
    year = { 2016 },
    address = { Piscataway, NJ },
    organization = { 21. International Conference on Emerging Technologies
and Factory Automation, Berlin (Germany), 2016-09-06 - 2016-09-09 },
    doi = { 10.1109/ETFA.2016.7733498 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2017-00123 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/681312 },
}

@inproceedings { GAK17,
```

```
author = { G{"o}be, Florian and Aydin, Selin and Kowalewski, Stefan },
title = { Applicability of supervisory control theory for the
supervision of PLC programs },
booktitle = { 2017 22nd IEEE International Conference on Emerging
Technologies and Factory Automation : September 12-15, 2017, Limassol,
Cyprus / ABB, IEEE, IES, University of Cyprus },
publisher = { IEEE },
pages = { 8 Seiten },
year = { 2017 },
address = { Piscataway, NJ },
organization = { 22. IEEE International Conference on Emerging
Technologies and Factory Automation, Limassol (Cyprus), 2017-09-12 -
2017-09-15 },
doi = { 10.1109/ETFA.2017.8247575 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-223454 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/722221 },
}

@phdthesis { Gob19,
author = { G{"o}be, Florian },
othercontributors = { Kowalewski, Stefan and Lunze, Jan },
title = { Runtime supervision of PLC programs using discrete-event
systems },
publisher = { RWTH Aachen University, Department of Computer Science },
school = { RWTH Aachen University },
pages = { 1 Online-Ressource (xi, 170 Seiten) : Illustrationen,
Diagramme },
series = { Aachener Informatik-Berichte },
year = { 2019 },
address = { Aachen },
doi = { 10.18154/RWTH-2019-11022 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2019-11022 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/773311/files/773311.pdf },
}

@article { GRB+24,
author = { Goldermann, Lavinia and Rakel, Stefan and Buglowski, Mateusz
and Mokhtarian, Armin and Kampmann, Alexandru and Jan{\ss}, Armin and
Yilmaz, Okan and Beger, Frank and Walter, Marian and Leonhardt, Steffen and
Kowalewski, Stefan and Stollenwerk, Andr e },
title = { Designing the user interface of a ventilator under the
constraints of a pandemic },
journal = { Automatisierungstechnik },
publisher = { De Gruyter },
pages = { 484-495 },
volume = { 72 },
```

```
number = { 5 },
year = { 2024 },
address = { Berlin },
issn = { 0178-2312 },
doi = { 10.1515/auto-2023-0205 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2024-04857 },
cin = { 122810 / 611010 / 419410 / 120000 },
}

@inproceedings { GKK+11,
  author = { Grobosch, Sebastian and Kamin, Volker and Krirkkawin,
Kriengkrai and Kowalewski, Stefan },
  title = { Using Timed Automata in Requirements Analysis for Engine
Control Units },
  booktitle = { Proceedings of the 18th IFAC World Congress, 2011 :
August 28 - September 2, 2011, Università Cattolica del Sacro Cuore, Milano
Italy / Ed.: Sergio Bittanti ... },
  publisher = { Curran },
  pages = { 12503-12508 },
  series = { IFAC-PapersOnLine },
  year = { 2011 },
  address = { Milano, Italy },
  organization = { 18. IFAC World Congress, Milano (Italy), 2011-08-28 -
2011-09-02 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-173764 },
  cin = { 122810 / 120000 },
  url = { http://dx.doi.org/10.3182/20110828-6-IT-1002.03679 },
}

@phdthesis { Gro19,
  author = { Grobosch, Sebastian },
  othercontributors = { Kowalewski, Stefan and Engell, Sebastian },
  title = { Formale Methoden f{"u}r die Entwicklung von eingebetteter
Software in kleinen und mittleren Unternehmen },
  publisher = { Shaker },
  school = { RWTH Aachen University },
  pages = { 1 Online-Ressource (ix, 162 Seiten) : Illustrationen,
Diagramme },
  series = { Aachener Informatik-Berichte },
  year = { 2019 },
  address = { D{"u"}ren },
  isbn = { 978-3-8440-6984-6 },
  doi = { 10.18154/RWTH-2019-09536 },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-2019-09536 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/768999/files/768999.pdf },
}
```

```
@article { GSA+18,  
  author = { Grochowski, Marco and Schweigler, Martin and Alrifaae,  
Bassam and Kowalewski, Stefan },  
  title = { A GPS-aided Inertial Navigation System for Vehicular  
Navigation using a Smartphone },  
  journal = { IFAC-PapersOnLine },  
  pages = { 121-126 },  
  volume = { 51 },  
  number = { 10 },  
  year = { 2018 },  
  address = { Laxenburg },  
  issn = { 2405-8963 },  
  organization = { 3. IFAC Conference on Embedded Systems, Computational  
Intelligence and Telematics in Control, Farod (Portugal), 2018-06-06 -  
2018-06-08 },  
  doi = { 10.1016/j.ifacol.2018.06.247 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2018-227583 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/731577 },  
}
```

```
@inproceedings { GKB+19,  
  author = { Grochowski, Marco and Kowalewski, Stefan and Buchsbaum,  
Melanie Sarah Katharina and Brecher, Christian },  
  title = { Applying Runtime Monitoring to the Industrial Internet of  
Things },  
  booktitle = { 2019 24th IEEE International Conference on Emerging  
Technologies and Factory Automation (ETFA) : Paraninfo Building, University  
of Zaragoza, Zaragoza, Spain, 10-13 September, 2019 : proceedings /  
organized by: University of Zaragoza, Spain ; sponsored by: the Institute of  
Electrical and Electronics Engineers (IEEE), IEEE Industrial Electronics  
Society (IES), Aragón Institute for Engineering Research (I3A), Spain },  
  publisher = { IEEE },  
  year = { 2019 },  
  address = { Piscataway, NJ },  
  organization = { 24. IEEE International Conference on Emerging  
Technologies and Factory Automation, Zaragoza (Spain), 2019-09-10 -  
2019-09-13 },  
  doi = { 10.1109/ETFA.2019.8869447 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2019-09795 },  
  cin = { 122810 / 080067 / 417200 / 120000 / 417310 },  
  url = {  
http://publications.rwth-aachen.de/record/770889/files/770889.pdf },  
  illkey = { WS-A.III - Functional Perspective (X080067-WS-A.III) },  
}
```

```
@inproceedings { GKB+19a,  
  author = { Grochowski, Marco and Kowalewski, Stefan and Buchsbaum,  
Melanie Sarah Katharina and Brecher, Christian },
```

```

    title = { Applying Passive Testing to an Industrial Internet of Things
Plant },
    booktitle = { VALID 2019 : the Eleventh International Conference on
Advances in System Testing and Validation Lifecycle : November 24-28, 2019,
Valencia, Spain / IARIA ; VALID 2019 editors: Jos van Rooyen (Identify -
Software Quality Services, the Netherlands), Samuele Buro (University of
Verona, Italy), Marco Campion (University of Verona, Italy), Michele Pasqua
(University of Verona, Italy) },
    publisher = { IARIA },
    pages = { 31-37 },
    year = { 2019 },
    address = { [Wilmington, DE, USA] },
    organization = { VALID 2019, The Eleventh International Conference on
Advances in System Testing and Validation Lifecycle, Valencia (Spain),
2019-11-24 - 2019-11-28 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-11004 },
    cin = { 122810 / 417200 / 080067 / 120000 / 417310 },
    url = {
http://thinkmind.org/index.php?view=article&articleid=valid_2019_2_30_40023
},
    illkey = { WS-A.III - Functional Perspective (X080067-WS-A.III) },
}

@article { GSB+20,
    author = { Grochowski, Marco and Simon, Hendrik and Bohlender, Dimitri
and Kowalewski, Stefan and L{"o"}cklin, Andreas and M{"u"}ller, Timo and
Jazdi, Nasser and Zeller, Andreas and Weyrich, Michael },
    title = { Formale Methoden f{"u"}r rekonfigurierbare cyber-physische
Systeme in der Produktion },
    journal = { Automatisierungstechnik },
    publisher = { De Gruyter },
    pages = { 3-14 },
    volume = { 68 },
    number = { 1 },
    year = { 2020 },
    address = { Berlin },
    issn = { 2196-677X },
    doi = { 10.1515/auto-2019-0115 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2019-12214 },
    cin = { 122810 / 120000 },
}

@inproceedings { GKB+20,
    author = { Grochowski, Marco and Kowalewski, Stefan and Buchsbaum,
Melanie Sarah Katharina and Brecher, Christian },
    title = { Bef{"a"}higung der Testautomatisierung f{"u"}r ein cyber-
physisches Produktionssystem },
    booktitle = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : 16. Fachtagung

```

```
EKA 2020 / Ulrich Jumar, Christian Diedrich (Hrsg.) },
  publisher = { Institut für Automation und Kommunikation e.V. - An-
Institut der Otto-von-Guericke-Universität Magdeburg },
  pages = { 10 Seiten },
  year = { 2020 },
  address = { Magdeburg },
  organization = { 16. Fachtagung EKA-Entwurf komplexer
Automatisierungssysteme, cancelled },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2020-05985 },
  cin = { 417200 / 417310 / 080067 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/792283 },
  illkey = { WS-A.III - Functional Perspective (X080067-WS-A.III) },
}
```

```
@inproceedings { GVK22,
  author = { Grochowski, Marco and Völker, Marcus and Kowalewski,
Stefan },
  title = { Test Suite Augmentation for Reconfigurable PLC Software in
the Internet of Production },
  booktitle = { Formal Methods for Industrial Critical Systems : 27th
International Conference, FMICS 2022, Warsaw, Poland, September 14–15, 2022,
Proceedings / edited by Jan Friso Groote, Marieke Huisman },
  publisher = { Springer },
  pages = { 137-154 },
  series = { Lecture notes in computer science },
  year = { 2022 },
  address = { Cham },
  organization = { 27. International Conference Formal Methods for
Industrial Critical Systems, Warsaw (Poland), 2022-09-14 - 2022-09-15 },
  doi = { 10.1007/978-3-031-15008-1_10 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2022-09029 },
  cin = { 122810 / 080067 / 120000 },
  url = { http://publications.rwth-aachen.de/record/853704 },
  illkey = { WS-A.III - Functional Perspective (X080067-WS-A.III) },
}
```

```
@inproceedings { GVK22a,
  author = { Grochowski, Marco and Völker, Marcus and Kowalewski,
Stefan },
  title = { Automatic Test Suite Generation for PLC Software in the
Internet of Production },
  booktitle = { 2022 27th IEEE International Conference on Emerging
Technologies and Factory Automation (ETFA) : 6-9 Sept. 2022 / [IEEE
Industrial Electronics Society, IEEE] },
  publisher = { IEEE },
  pages = { 8 Seiten },
  year = { 2022 },
  address = { Piscataway, NJ },
  organization = { 27. International Conference on Emerging Technologies
```

```
and Factory Automation, Stuttgart (Germany), 2022-09-06 - 2022-09-09 },
doi = { 10.1109/ETFA52439.2022.9921726 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2022-09915 },
cin = { 122810 / 080067 / 120000 },
url = { http://publications.rwth-aachen.de/record/854996 },
illkey = { WS-A.III - Functional Perspective (X080067-WS-A.III) },
}
```

```
@phdthesis { Gru17,
author = { Gr{"u}ner, Sten },
othercontributors = { Eppe, Ulrich and Kowalewski, Stefan },
title = { Ressourcenadaptive Anwendungen f{"u}r die operative
Prozessleittechnik },
publisher = { VDI Verlag GmbH },
school = { RWTH Aachen University },
pages = { XIII, 152 Seiten : Illustrationen, Diagramme },
series = { Fortschrittberichte VDI. Reihe 8, Me{"ss"}-, Steuerungs- und
Regelungstechnik },
year = { 2017 },
address = { D{"u"}sseldorf },
isbn = { 978-3-18-525708-7 },
typ = { PUB:(DE-HGF)3 },
reportid = { RWTH-2017-07964 },
cin = { 526610 / 520000 / 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/698845 },
}
```

```
@inproceedings { Guc09,
author = { G{"u"}ckel, Dominique },
title = { Retargeting a hardware-dependent model checker by using
architecture description languages },
booktitle = { Doctoral Symposium on Systems Software Verification (DS
SSV'09) : Real Software, Real Problems, Real Solutions ; proceedings ; held
during the 4th International Workshop on Systems Software Verication
(SSV'09) in Aachen, Germany, June 22\[24, 2009 / Ralf Huuck, Gerwin Klein,
and Bastian Schlich (eds.) },
publisher = { RWTH Aachen, Department of Computer Science },
pages = { 7-9 },
series = { Aachener Informatik Berichte : AIB },
year = { 2009 },
address = { Aachen },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-172525 },
cin = { 122810 / 120000 },
url = {
http://sunsite.informatik.rwth-aachen.de/Publications/AIB/2009/2009-14.pdf
},
}
```

```
@inproceedings { GBK10,
```

```
author = { G{"u}ckel, Dominique and Brauer, J{"o}rg and Kowalewski,
Stefan },
title = { A System for Synthesizing Abstraction-Enabled Simulators for
Binary Code Verification },
booktitle = { 2010 International Symposium on Industrial Embedded
Systems (SIES 2010) : Trento, Italy, 7 - 9 July 2010 / [University of
Trento, Italy; IEEE; IES] },
publisher = { IEEE },
pages = { 118-127 },
year = { 2010 },
address = { Piscataway, NJ },
organization = { 2010 International Symposium on Industrial Embedded
Systems, Trento (Italy), 2010-07-07 - 2010-07-09 },
doi = { 10.1109/SIES.2010.5551382 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-190384 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/119226 },
}
```

```
@inproceedings { GSB+10,
author = { G{"u}ckel, Dominique and Schlich, Bastian and Brauer,
J{"o}rg and Kowalewski, Stefan },
title = { Synthesizing Simulators for Model Checking Microcontroller
Binary },
booktitle = { Proceedings of the 13th IEEE Symposium on Design and
Diagnostics of Electronic Circuits and Systems : April 14–16, 2010, Vienna,
Austria / Sponsored by IEEE Computer Society, Test Technology Techn.
Council, In coop. with Dept. of Computer Engineering, Fac. of Informatics,
Vienna Univ. of Techn. },
publisher = { IEEE },
pages = { 313-316 },
year = { 2010 },
address = { Piscataway, NJ },
organization = { 13. IEEE Symposium on Design and Diagnostics of
Electronic Circuits and Systems, Vienna (Austria), 2010-04-14 - 2010-04-16
},
doi = { 10.1109/DDECS.2010.5491761 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-190385 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/119227 },
}
```

```
@inproceedings { GK11,
author = { G{"u}ckel, Dominique and Kowalewski, Stefan },
title = { Automatic Derivation of Abstract Semantics From Instruction
Set Descriptions },
booktitle = { Proceedings of the 6th International Workshop on Systems
Software Verification / (SSV 2011), Institut of Systems Architecture.
Technische Universit{"a}t Dresden, Fakult{"a}t Informatik. J{"o}rg Brauer
```

```

... (ed.) },
  publisher = { TU, Fak. Informatik },
  pages = { 18-32 },
  year = { 2011 },
  address = { Dresden },
  organization = { 6. International Workshop on Systems Software
Verification, Dresden (Germany) },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198497 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/128380 },
}

@phdthesis { Gucl4,
  author = { G{"u}ckel, Dominique },
  othercontributors = { Kowalewski, Stefan and Leupers, Rainer },
  title = { Synthesis of state space generators for model checking
microcontroller code },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  school = { Aachen, Techn. Hochsch. },
  pages = { XI, 181 S. : Ill., graph. Darst. },
  series = { Aachener Informatik-Berichte Technical report / Department
of Computer Science, RWTH Aachen },
  year = { 2014 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-207070 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/464374/files/5296.pdf
},
}

HBK15,
  author = { Hamadache, Salsabil and Borchers, Jan Oliver and Kowalewski,
Stefan },
  title = { LumiCAD : Interactive Organic Generative Design for Personal
Photonics with OLEDs },
  school = { Aachen, Techn. Hochsch. },
  pages = { XXI, 53 S. : Ill. },
  year = { 2015 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)2 },
  reportid = { RWTH-2015-06552 },
  cin = { 122710 / 120000 / 122810 },
  url = {
http://hci.rwth-aachen.de/materials/publications/hamadache2015a.pdf },
}

HBS24,
  author = { Hammer, Freimut Gebhard Herbert and Buglowski, Mateusz and
Stollenwerk, Andr   },

```

```
title = { Medical Data Anonymization Tool },
year = { 2024 },
doi = { 10.18154/RWTH-2024-01149 },
typ = { PUB:(DE-HGF)33 },
reportid = { RWTH-2024-01149 },
cin = { 122810 / 120000 },
url = {
https://git.rwth-aachen.de/informatik11/medical-data-anonymization/-/releases
},
illkey = { BMBF 13GW0292C - Innovatives Neonatologiebeatmungsgerat mit adaptiver Anwenderunterstützung (NANNI) - Teilvorhaben: Erforschung neuer Modelle zur Diagnose von Fehlerzuständen (BMBF-13GW0292C) },
}

@inproceedings { HSK11,
author = { Hensch, Paul and Schommer, John F. and Kowalewski, Stefan },
title = { Self-balancing Controllable Robots in Education: A Practical Course for Bachelor Students },
booktitle = { Intelligent robotics and applications : 4th international conference, ICIRA 2011, Aachen, Germany, December 6 - 8, 2011 ; proceedings / Sabina Jeschke; Honghai Liu; Daniel Schilberg (eds.) },
publisher = { Springer Verlag },
pages = { 297-306 },
series = { Lecture notes in computer science : Lecture notes in artificial intelligence },
year = { 2011 },
address = { Berlin, Heidelberg },
organization = { Intelligent robotics and applications : 4. international conference, ICIRA 2011, Aachen (Germany), 2011-12-06 - 2011-12-08 },
doi = { 10.1007/978-3-642-25489-5_29 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188864 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/117482 },
}

@inproceedings { HK12,
author = { Hensch, Paul and Kowalewski, Stefan },
title = { Invariants for LTI Systems with Uncertain Input },
booktitle = { Reachability Problems : 6th International Workshop, RP 2012, Bordeaux, France, September 17-19, 2012. Proceedings / ed. by Alain Finkel, Jérôme Leroux, Igor Potapov },
publisher = { Springer },
pages = { 137-148 },
series = { Lecture Notes in Computer Science },
year = { 2012 },
address = { Berlin ; Heidelberg },
organization = { Reachability Problems : 6. International Workshop, Bordeaux (France), 2012-09-17 - 2012-09-19 },
```

```
doi = { 10.1007/978-3-642-33512-9_12 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-189555 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/118309 },
}

@article { HDB+13,
  author = { H{"a}nsch, Paul and Diab, Hilal and Ben Makhlouf, Ibtissem
and Kowalewski, Stefan },
  title = { Reachability Analysis of Linear Systems with Stepwise
Constant Inputs },
  journal = { Electronic notes in theoretical computer science : ENTCS },
  publisher = { Elsevier },
  pages = { 61-74 },
  volume = { 297 },
  year = { 2013 },
  address = { Amsterdam },
  issn = { 1571-0661 },
  organization = { 1. workshop on Hybrid Autonomous Systems },
  doi = { 10.1016/j.entcs.2013.12.005 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-088053 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/445077 },
}

@inproceedings { HF13,
  author = { Hansen, Norman and Franke, Dominik },
  title = { Reverse Engineering des Windows Phone Process Execution
Models },
  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
fachwissenschaftlicher Informatik-Kongress 22. und 23. M{"a}rz 2013 B-IT
Bonn-Aachen International Center for Information Technology, Bonn /
Gesellschaft f{"u}r Informatik (Hrsg.). [Red.: Ludger Porada] },
  publisher = { Gesellschaft f{"u}r Informatik e.V. },
  pages = { 83-86 },
  series = { GI-Edition : lecture notes in informatics },
  year = { 2013 },
  address = { Bonn },
  organization = { Fachwissenschaftlicher Informatik-Kongress, Bonn
(Germany), 2013-03-22 - 2013-03-23 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-204143 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226725 },
}

@inproceedings { HWK+17,
  author = { Hansen, Norman and Wiechowski, Norbert and Kugler, Alexander
and Kowalewski, Stefan and Rambow, Thomas and Busch, Rainer },
```

```
title = { Model-in-the-Loop and Software-in-the-Loop Testing of Closed-
Loop Automotive Software with Arttest },
booktitle = { Informatik 2017 : 25.-29. September 2017, Chemnitz :
proceedings / Maximilian Eibl, Martin Gaedke (Hrsg.) },
publisher = { Gesellschaft f{"u}r Informatik },
pages = { 1537-1549 },
series = { GI-Edition : lecture notes in informatics. Proceedings },
year = { 2017 },
address = { Bonn },
organization = { 47. Jahrestagung der Gesellschaft f{"u}r Informatik
e.V. (GI), Chemnitz (Germany), 2017-09-25 - 2017-09-29 },
doi = { 10.18420/in2017_154 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236306 },
cin = { 122810 / 120000 },
url = { https://dl.gi.de/handle/20.500.12116/21 },
}
```

```
@phdthesis { Has15,
author = { Hassani, Marwan },
othercontributors = { Seidl, Thomas and Gaber, Mohamed Medhat and
Kowalewski, Stefan },
title = { Efficient clustering of big data streams },
publisher = { Apprimus-Verl. },
school = { Zugl.: Aachen, Techn. Hochsch. },
pages = { III, 244, XXV S. : graph. Darst. },
series = { Ergebnisse aus der Informatik },
year = { 2015 },
address = { Aachen },
isbn = { 978-3-86359-318-6 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2015-02790 },
cin = { 122510 / 120000 / 122810 },
url = {
http://publications.rwth-aachen.de/record/478963/files/478963_source.zip },
}
```

```
@inproceedings { HBS+15,
author = { Hauck-Stattelmann, Stefan and Biallas, Sebastian and
Schlich, Bastian and Kowalewski, Stefan and Jetley, Raoul },
title = { Analyzing the Restart Behavior of Industrial Control
Applications },
booktitle = { FM 2015: formal methods : 20th international symposium,
Oslo, Norway, June 24 - 26, 2015 ; proceedings / Nikolaj Bjørner; Frank de
Boer (eds.) },
publisher = { Cham },
pages = { 585-588 },
series = { Lecture Notes in Computer Science },
year = { 2015 },
address = { Springer International Publishing },
organization = { 20. International Symposium Formal Methods, Oslo
}
```

```

(Norway), 2015-06-24 - 2015-06-26 },
  doi = { 10.1007/978-3-319-19249-9_38 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-207691 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/541096 },
}

@inproceedings { HVK+22,
  author = { Henn, Thomas and V{\o}lker, Marcus and Kowalewski, Stefan
and Trinh, Minh and Petrovic, Oliver and Brecher, Christian },
  title = { Verification of Behavior Trees using Linear Constrained Horn
Clauses },
  booktitle = { Formal Methods for Industrial Critical Systems (fmics
2022) },
  pages = { 211-225 },
  year = { 2022 },
  organization = { 27. International Conference on Formal Methods in
Industrial Critical Systems },
  doi = { 10.1007/978-3-031-15008-1_14 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2023-00708 },
  cin = { 417310 / 122810 / 120000 / 417200 / 080067 },
  url = {
http://publications.rwth-aachen.de/record/863064/files/863064.pdf },
  illkey = { WS-A.III - Functional Perspective (X080067-WS-A.III) },
}

@article { HSW+08,
  author = { Herberich, Gerlind and Schlich, Bastian and Weise, Carsten
and Noll, Thomas },
  title = { Proving correctness of an efficient abstraction for interrupt
handling },
  journal = { Electronic notes in theoretical computer science : ENTCS },
  publisher = { Elsevier Science },
  pages = { 133-150 },
  volume = { 217 },
  year = { 2008 },
  address = { Amsterdam [u.a.] },
  issn = { 1571-0661 },
  doi = { 10.1016/j.entcs.2008.06.046 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-012122 },
  cin = { 122810 / 121310 / 120000 },
  url = { http://publications.rwth-aachen.de/record/130980 },
}

HSS+08,
  author = { Herding, Daniel Chu and Spannagel, Christian and Schroeder,
Ulrik and Kowalewski, Stefan },
  title = { Entwicklungswerkzeug zur Realisierung funktionaler GUI-

```

Prototypen für die Durchführung empirischer Usability-Studien mit Jacareto },

year = { 2008 },
 address = { Aachen, Germany },
 typ = { PUB:(DE-HGF)10 },
 reportid = { RWTH-CONV-144868 },
 cin = { 120000 / 122420 / 122810 },
 url = { <http://lufgi9.informatik.rwth-aachen.de/HerdingDipl> },

}

HSK23,

author = { Heyn, Lukas and Scheffe, Patrick and Kowalewski, Stefan },
 title = { Centralized graph-search algorithms for effective trajectory planning of networked vehicles },
 publisher = { RWTH Aachen University },
 school = { RWTH Aachen University },
 pages = { 1 Online-Ressource: Illustrationen },
 year = { 2023 },
 address = { Aachen },
 doi = { 10.18154/RWTH-2023-11389 },
 typ = { PUB:(DE-HGF)19 },
 reportid = { RWTH-2023-11389 },
 cin = { 122810 / 120000 },
 url = { <http://publications.rwth-aachen.de/record/974499/files/974499.pdf> },
 }

@phdthesis { Hud17,

author = { Hudecek, Janek },
 othercontributors = { Eckstein, Lutz and Kowalewski, Stefan },
 title = { Trajektorienplanung für hochautomatisierte Kraftfahrzeuge mittels echtzeitfähiger nichtlinearer modellprädiktiver Regelung },
 publisher = { fka Forschungsgesellschaft Kraftfahrwesen mbH Aachen },
 school = { RWTH Aachen University },
 pages = { 172 Seiten : Illustrationen, Diagramme },
 series = { Schriftenreihe Automobiltechnik },
 year = { 2017 },
 address = { Aachen },
 isbn = { 978-3-946019-09-1 },
 typ = { PUB:(DE-HGF)3 },
 reportid = { RWTH-2017-04701 },
 cin = { 414110 / 122810 / 120000 },
 url = { <http://publications.rwth-aachen.de/record/689938> },
 }

@proceedings { HKK+09,

editor = { Hutchison, David and Kanade, Takeo and Kittler, Josef and Kleinberg, Jon M. and Mattern, Friedemann and Mitchell, John C. and Naor, Moni and Nierstrasz, Oscar and Rangan, C. Pandu and Steffen, Bernhard and Sudan, Madhu and Terzopoulos, Demetri and Tygar, Doug and Vardi, Moshe Y. and Weikum, Gerhard and Kowalewski, Stefan and Philippou, Anna },

```
title = { Tools and Algorithms for the Construction and Analysis of
Systems : 15th International Conference, TACAS 2009, Held as Part of the
Joint European Conferences on Theory and Practice of Software, ETAPS 2009,
York, UK, March 22-29, 2009. Proceedings },
publisher = { Springer Berlin Heidelberg },
series = { LNCS },
year = { 2009 },
address = { Berlin, Heidelberg },
organization = { 15. International Conference, TACAS 2009, York (UK),
2009-03-22 - 2009-03-29 },
doi = { 10.1007/978-3-642-00768-2 },
typ = { PUB:(DE-HGF)26 },
reportid = { RWTH-CONV-236344 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752316 },
}

@inproceedings { HFS+08,
author = { Huuck, Ralf and Fehnker, Ansgar and Seefried, Sean and
Brauer, J{\\"o}rg },
title = { Goanna: syntactic software model checking },
booktitle = { Automated technology for verification and analysis : 6th
international symposium, ATVA 2008, Seoul, Korea, October 20 - 23, 2008 ;
proceedings / Sungdeok (Steve) Cha; Jin-Young Choi; Moonzoo Kim; Insup Lee;
Mahesh Viswanathan (eds.) },
publisher = { Springer },
pages = { 216-221 },
series = { Lecture notes in computer science },
year = { 2008 },
address = { Berlin [u.a.] },
organization = { 6. International Symposium on Automated Technology for
Verification and Analysis, Seoul (South Korea), 2008-10-20 - 2008-10-23 },
doi = { 10.1007/978-3-540-88387-6_17 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-095469 },
}

@article { JSS+22,
author = { Janisch, Thorsten and Stollenwerk, André and Siekmann,
Ulrich and Kopp, R{\\"u}dger },
title = { Treatment of children with Hyperbaric Oxygenation (HBOT) : an
Europe-wide survey },
journal = { Minerva pediatrics },
publisher = { Edizioni Minerva Medica },
pages = { 116-120 },
volume = { 74 },
number = { 2 },
year = { 2022 },
address = { Torino },
issn = { 1827-1715 },
doi = { 10.23736/S2724-5276.20.05741-2 },
```

```
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2020-04222 },
    cin = { 122810533000-3533000-2 / 120000533000-2 },
    url = {
http://publications.rwth-aachen.de/record/787714/files/787714.pdf },
}

@inproceedings { JGN14,
    author = { Jansen, Christina and G{\o}be, Florian and Noll, Thomas },
    title = { Generating Inductive Predicates for Symbolic Execution of
Pointer-Manipulating Programs },
    booktitle = { Graph transformation : 7th international conference, ICGT
2014, held as part of STAF 2014, York, UK, July 22 - 24, 2014 ; proceedings
/ Holger Giese ... (eds.) },
    publisher = { Springer },
    pages = { 65-80 },
    series = { Lecture notes in computer science },
    year = { 2014 },
    address = { Cham [u.a.] },
    organization = { Graph transformation : 7. international conference,
York (UK), 2014-07-22 - 2014-07-24 },
    doi = { 10.1007/978-3-319-09108-2_5 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-206171 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/444215 },
}

@inproceedings { JSG+21,
    author = { Jatzkowski, Inga and Stolte, Torben and Graubohm, Robert and
Maurer, Markus and Kampmann, Alexandru and Alrifaae, Bassam and Kowalewski,
Stefan and Buchholz, Michael and Dietmayer, Klaus },
    title = { Integration of a Vehicle Operating Mode Management into
UNICARagil's Automotive Service-oriented Software Architecture },
    booktitle = { 30. Aachen Colloquium Sustainable Mobility : October
4th-6th, 2021 / scientific management: Univ.-Prof. Dr.-Ing. Lutz Eckstein,
Univ.-Prof. Dr.-Ing. Stefan Pischinger ; organizational management: Michaela
Wacker (M. Sc.), Jonas M{\u}ller (M. Sc.) ; organized by: Institute for
Automotive Engineering (RWTH Aachen University), Institute for Combustion
Engines (RWTH Aachen University) },
    publisher = { Institute for Automotive Engineering, RWTH Aachen
University },
    pages = { 595-614 },
    year = { 2021 },
    address = { Aachen },
    organization = { 30. Aachen Colloquium Sustainable Mobility, Aachen
(Germany), 2021-10-04 - 2021-10-06 },
    doi = { 10.24355/DBBS.084-202110271613-0 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2022-01307 },
    cin = { 122810 / 120000 },
```

```
url = {
http://publications.rwth-aachen.de/record/840892/files/840892.pdf },
}

@inproceedings { JMR+15,
  author = { Jawawi, Dayang N. A. and Mamat, Rosbi and Ridzuan, Fakhithah
and Khatibsyarbini, Muhammad and Zulkifli, M. and Zaki, Mohammed Javeed },
  title = { Introducing computer programming to secondary school students
using mobile robots },
  booktitle = { 2015 10th Asian Control Conference (ASCC 2015) : Kota
Kinabalu, Malaysia, 31 May - 3 June 2015 ; proceedings / ed.: Azura Che Soh
... },
  publisher = { IEEE },
  year = { 2015 },
  address = { Piscataway, NJ },
  organization = { 10. Asian Control Conference, Kota Kinabalu
(Malaysia), 2015-05-31 - 2015-06-03 },
  doi = { 10.1109/ASCC.2015.7244750 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12202 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/681097 },
}

@inproceedings { KFS+12,
  author = { Kalkov, Igor and Franke, Dominik and Schommer, John F. and
Kowalewski, Stefan },
  title = { A Real-time Extension to the Android Platform },
  booktitle = { JTRES 2012 : proceedings of the 10th International
Workshop on Java Technologies for Real-time and Embedded Systems, October
24-26, 2012, Copenhagen, Denmark / Andy Wellings ... },
  publisher = { ACM Press },
  pages = { 105-114 },
  series = { ACM conference proceedings series },
  year = { 2012 },
  address = { New York, N.Y. },
  organization = { 10. International Workshop on Java Technologies for
Real-time and Embedded Systems, Copenhagen (Denmark), 2012-10-24 -
2012-10-26 },
  doi = { 10.1145/2388936.2388955 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199219 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/129215 },
}

@inproceedings { KGK14,
  author = { Kalkov, Igor and Gurchian, Alexandru and Kowalewski, Stefan
},
  title = { Predictable Broadcasting of Parallel Intents in Real-Time
Android },
```

```
booktitle = { Proceedings of the 12th International Workshop on Java
Technologies for Real-time and Embedded Systems : JTRES 2014 : Niagara
Falls, NY, USA, October 13th-14th, 2014 },
publisher = { ACM },
pages = { 57-66 },
series = { ACM international conference proceedings series },
year = { 2014 },
address = { New York, New York },
organization = { 12. International Workshop on Java Technologies for
Real-time and Embedded Systems, Niagara Falls, NY (USA), 2014-10-13 -
2014-10-14 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-205503 },
cin = { 120000 / 122810 },
url = { http://publications.embedded.rwth-aachen.de/file/5g },
}

@inproceedings { KGK15,
author = { Kalkov, Igor and Gurghian, Alexandru and Kowalewski, Stefan
},
title = { Priority Inheritance during Remote Procedure Calls in Real-
Time Android using Extended Binder Framework },
booktitle = { Proceedings of the 13th International Workshop on Java
Technologies for Real-time and Embedded Systems },
publisher = { ACM },
pages = { 5, 10 Seiten },
series = { ACM Other conferences },
year = { 2015 },
address = { New York, NY },
organization = { 13. International Workshop on Java Technologies for
Real-time and Embedded Systems, Paris (France), 2015-10-07 - 2015-10-08 },
doi = { 10.1145/2822304.2822311 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2016-03747 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/573802 },
}

@inproceedings { KGK17,
author = { Kalkov, Igor and Gurghian, Alexandru and Kowalewski, Stefan
},
title = { Explicit prioritization of parallel Intent broadcasts in
real-time Android },
booktitle = { Concurrency and computation },
publisher = { Wiley },
volume = { 29 },
number = { 22 },
year = { 2017 },
address = { Chichester },
issn = { 1532-0626 },
organization = { 12. International workshop on Java Technologies for
```

Real-Time and Embedded systems, Niagara Falls, NY (USA), 2014-10-13 - 2014-10-14 },

doi = { 10.1002/cpe.4122 },

typ = { PUB:(DE-HGF)16 },

reportid = { RWTH-2017-09553 },

cin = { 122810 / 120000 },

url = { <http://publications.rwth-aachen.de/record/707959> },

}

@phdthesis { Kal17,

author = { Kalkov, Igor },

othercontributors = { Kowalewski, Stefan and A{\ss}mann, Uwe },

title = { A real-time capable, open-source-based platform for off-the-shelf embedded devices },

publisher = { RWTH Aachen University, Department of Computer Science },

school = { RWTH Aachen University },

pages = { 1 Online-Ressource (xx, 114 Seiten) : Illustrationen,

Diagramme },

series = { Aachener Informatik-Berichte },

year = { 2017 },

address = { Aachen },

doi = { 10.18154/RWTH-2018-222005 },

typ = { PUB:(DE-HGF)3 },

reportid = { RWTH-2018-222005 },

cin = { 122810 / 120000 },

url = {

<http://publications.rwth-aachen.de/record/719343/files/719343.pdf> },

}

@inproceedings { KAK+19,

author = { Kampmann, Alexandru and Alrifaae, Bassam and Kohout, Markus and W{\u}stenberg, Andreas and Woopen, Timo and Nolte, Marcus and Eckstein, Lutz and Kowalewski, Stefan },

title = { A Dynamic Service-Oriented Software Architecture for Highly Automated Vehicles },

booktitle = { The 2019 IEEE Intelligent Transportation Systems Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },

publisher = { IEEE },

pages = { 2101-2108 },

year = { 2019 },

address = { Piscataway, NJ },

organization = { 22. IEEE Intelligent Transportation Systems Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },

doi = { 10.1109/ITSC.2019.8916841 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-2019-11214 },

cin = { 122810 / 414110 / 120000 },

url = { <http://publications.rwth-aachen.de/record/773699> },

}

```
@inproceedings { KWA+19,  
  author = { Kampmann, Alexandru and W{"u}stenberg, Andreas and  
Alrifaae, Bassam and Kowalewski, Stefan },  
  title = { A Portable Implementation of the Real-Time Publish-Subscribe  
Protocol for Microcontrollers in Distributed Robotic Applications },  
  booktitle = { The 2019 IEEE Intelligent Transportation Systems  
Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-  
ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },  
  publisher = { IEEE },  
  pages = { 443-448 },  
  year = { 2019 },  
  address = { Piscataway, NJ },  
  organization = { 22. IEEE Intelligent Transportation Systems  
Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },  
  doi = { 10.1109/ITSC.2019.8916835 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2019-11216 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/773701 },  
}
```

```
@article { KMR+20,  
  author = { Kampmann, Alexandru and Mokhtarian, Armin and Rogalski, Jan  
and Kowalewski, Stefan and Alrifaae, Bassam },  
  title = { Agile Latency Estimation for a Real-time Service-oriented  
Software Architecture },  
  journal = { IFAC-PapersOnLine },  
  publisher = { Elsevier },  
  pages = { 5795-5800 },  
  volume = { 53 },  
  number = { 2 },  
  year = { 2020 },  
  address = { Frankfurt ; M{"u"}nchen [u.a.] },  
  issn = { 2405-8963 },  
  organization = { 21. IFAC World Congress on Automatic Control - Meeting  
Societal Challenges, Berlin (Germany), 2020-07-11 - 2020-07-17 },  
  doi = { 10.1016/j.ifacol.2020.12.1619 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2021-06497 },  
  cin = { 122810 / 120000 },  
  url = {  
http://publications.rwth-aachen.de/record/822016/files/822016.pdf },  
}
```

```
@inproceedings { KLP+22,  
  author = { Kampmann, Alexandru and Lamberti, Michael and Petrovic,  
Nikola and Kowalewski, Stefan and Alrifaae, Bassam },  
  title = { Investigating Outdoor Recognition Performance of Infrared  
Beacons for Infrastructure-based Localization },  
  booktitle = { 2022 IEEE Intelligent Vehicles Symposium (IV) : 4-9 June  
2022 / publisher: IEEE },
```

```
publisher = { IEEE },
pages = { 1107-1113 },
year = { 2022 },
address = { Piscataway, NJ },
organization = { 33. IEEE Intelligent Vehicles Symposium, Aachen
(Germany), 2022-06-04 - 2022-06-09 },
doi = { 10.1109/IV51971.2022.9827288 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2022-08618 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/853126/files/853126.pdf },
}

@inproceedings { KLK+22,
author = { Kampmann, Alexandru and L{\u}er, Maximilian and Kowalewski,
Stefan and Alrifaae, Bassam },
title = { Optimization-based Resource Allocation for an Automotive
Service-oriented Software Architecture },
booktitle = { 2022 IEEE Intelligent Vehicles Symposium (IV) : 4-9 June
2022 / publisher: IEEE },
publisher = { IEEE },
pages = { 678-687 },
year = { 2022 },
address = { Piscataway, NJ },
organization = { 33. IEEE Intelligent Vehicles Symposium, Aachen
(Germany), 2022-06-04 - 2022-06-09 },
doi = { 10.1109/IV51971.2022.9827429 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2022-08619 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/853127/files/853127.pdf },
}

@inproceedings { KMK+22,
author = { Kampmann, Alexandru and Mokhtarian, Armin and Kowalewski,
Stefan and Alrifaae, Bassam },
title = { ASOA - A Dynamic Software Architecture for Software-defined
Vehicles },
booktitle = { [31st Aachen Colloquium Sustainable Mobility 2022] },
year = { 2022 },
organization = { 31. Aachen Colloquium Sustainable Mobility 2022 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-2022-11158 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/856836/files/856836.pdf },
}

@phdthesis { Kam23,
```

```

author = { Kampmann, Alexandru },
othercontributors = { Kowalewski, Stefan and Eckstein, Lutz },
title = { A dynamic service-oriented software architecture for the
automotive domain },
publisher = { RWTH Aachen University },
school = { RWTH Aachen University },
pages = { 1 Online-Ressource : Illustrationen },
series = { Aachener Informatik-Berichte (AIB) },
year = { 2023 },
address = { Aachen },
doi = { 10.18154/RWTH-2024-00864 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2024-00864 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/977648/files/977648.pdf },
}

```

```

@inproceedings { KNR+19,
author = { Keilhoff, Dan and Niedballa, Dennis and Reuss, Hans-
Christian and Buchholz, Michael and Gies, Fabian and Dietmayer, Klaus and
Lauer, Martin and Stiller, Christoph and Ackermann, Stefan and Winner,
Hermann and Kampmann, Alexandru and Alrifaae, Bassam and Kowalewski, Stefan
and Klein, Fabian and Struth, Michael Manfred and Woopen, Timo and Eckstein,
Lutz },
title = { UNICARagil - New architectures for disruptive vehicle
concepts },
booktitle = { 19. Internationales Stuttgarter Symposium : Automobil-
und Motorentechnik / Michael Bargende, Hans-Christian Reuss, Andreas Wagner,
Jochen Wiedemann (Hrsg.) },
publisher = { Springer Vieweg },
pages = { 830-842 },
series = { Proceedings },
year = { 2019 },
address = { Wiesbaden ; [Heidelberg] },
organization = { 19. Internationales Stuttgarter Symposium Automobil-
und Motorentechnik = 19th Stuttgart International Symposium Automotive and
Engine Technology, Stuttgart (Germany), 2019-03-19 - 2019-03-20 },
doi = { 10.1007/978-3-658-25939-6_65 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2019-09748 },
cin = { 122810 / 120000 / 414110 },
url = { http://publications.rwth-aachen.de/record/770823 },
}

```

```

@inproceedings { KTF19,
author = { Khan, Adnan and Th{"o"}nnessen, David and Fabian, Martin },
title = { On-the-fly conformance testing of safety PLC code using
QuickCheck },
booktitle = { 2019 IEEE 17th International Conference on Industrial
Informatics (INDIN) : Aalto University, Helsinki-Espoo, Finland, 22-25 July,

```

2019 : proceedings / organized by: Aalto University, Finland; Tampere University, Finland; Finnish Society of Automation, Finland ; sponsored by: the Institute of Electrical and Electronics Engineers (IEEE), IEEE Industrial Electronics Society (IES) },

publisher = { IEEE },

pages = { 419-424 },

year = { 2019 },

address = { Piscataway, NJ },

organization = { 17. IEEE International Conference on Industrial Informatics, Helsinki (Finland), 2019-07-22 - 2019-07-25 },

doi = { 10.1109/INDIN41052.2019.8972277 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-2019-04271 },

cin = { 122810 / 120000 },

url = { <http://publications.rwth-aachen.de/record/760542> },

}

@article { KHS09,

author = { Klein, Gerwin and Huuck, Ralf and Schlich, Bastian },

title = { Operating System Verification },

journal = { Journal of automated reasoning },

publisher = { Springer },

pages = { 123-124 },

volume = { 42 },

number = { 2/4 },

year = { 2009 },

address = { Dordrecht [u.a.] },

issn = { 0168-7433 },

doi = { 10.1007/s10817-009-9126-9 },

typ = { PUB:(DE-HGF)16 },

reportid = { RWTH-CONV-065212 },

cin = { 122810 / 120000 },

url = { <http://publications.rwth-aachen.de/record/188901> },

}

@inproceedings { KKM+19,

author = { Kloock, Maximilian Martin and Kragl, Ludwig and Maczijekowski, Janis and Alrifaaee, Bassam and Kowalewski, Stefan },

title = { Distributed Model Predictive Pose Control of Multiple Nonholonomic Vehicles },

booktitle = { IV19 : 30th IEEE Intelligent Vehicles Symposium : 9-12 June 2019, Paris / publisher: IEEE },

publisher = { IEEE },

pages = { 1620-1625 },

year = { 2019 },

address = { Piscataway, NJ },

organization = { 30. IEEE Intelligent Vehicles Symposium, Paris (France), 2019-06-09 - 2019-06-12 },

doi = { 10.1109/IVS.2019.8813980 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-2019-08197 },

```
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/766610 },
}

@inproceedings { KSB+19,
    author = { Kloock, Maximilian Martin and Scheffe, Patrick and Botz,
Lukas and Maczijekowski, Janis and Alrifaae, Bassam and Kowalewski, Stefan },
    title = { Networked Model Predictive Vehicle Race Control },
    booktitle = { The 2019 IEEE Intelligent Transportation Systems
Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-
ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },
    publisher = { IEEE },
    pages = { 1552-1557 },
    year = { 2019 },
    address = { Piscataway, NJ },
    organization = { 22. IEEE Intelligent Transportation Systems
Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
    doi = { 10.1109/ITSC.2019.8917222 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-11241 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/773727 },
}

@inproceedings { KSM+19,
    author = { Kloock, Maximilian Martin and Scheffe, Patrick and
Marquardt, Sascha and Maczijekowski, Janis and Alrifaae, Bassam and
Kowalewski, Stefan },
    title = { Distributed Model Predictive Intersection Control of Multiple
Vehicles },
    booktitle = { The 2019 IEEE Intelligent Transportation Systems
Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-
ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },
    publisher = { IEEE },
    pages = { 8917117, 1735-1740 },
    year = { 2019 },
    address = { Piscataway, NJ },
    organization = { 22. IEEE Intelligent Transportation Systems
Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
    doi = { 10.1109/ITSC.2019.8917117 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-11242 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/773728 },
}

@article { KST+20,
    author = { Kloock, Maximilian Martin and Scheffe, Patrick and
T{"u"}lleners, Isabelle and Maczijekowski, Janis and Kowalewski, Stefan and
Alrifaae, Bassam },
    title = { Vision-Based Real-Time Indoor Positioning System for Multiple
```

```

Vehicles },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  pages = { 15446-15453 },
  volume = { 53 },
  number = { 2 },
  year = { 2020 },
  address = { Frankfurt },
  issn = { 2405-8963 },
  organization = { 21. IFAC World Congress, online, 2020-07-11 -
2020-07-17 },
  doi = { 10.1016/j.ifacol.2020.12.2367 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2021-03830 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/817298/files/817298.pdf },
}

@inproceedings { KHK+21,
  author = { Kloock, Maximilian Martin and He, Qingyun and Kowalewski,
Stefan and Alrifaae, Bassam },
  title = { Trajectory Verification for Networked and Autonomous Vehicles
using Temporal Logic and Model Checking },
  booktitle = { 2021 IEEE International Intelligent Transportation
Systems Conference (ITSC) : 19-22 Sept. 2021 / publisher: IEEE },
  publisher = { IEEE },
  pages = { 244-250 },
  year = { 2021 },
  address = { [Piscataway, NJ] },
  organization = { 24. International Intelligent Transportation Systems
Conference, Indianapolis, IN (USA), 2021-09-19 - 2021-09-22 },
  doi = { 10.1109/ITSC48978.2021.9564414 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2021-10124 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/834750/files/834750.pdf },
}

@inproceedings { KSM+21,
  author = { Kloock, Maximilian Martin and Scheffe, Patrick and
Maczijekowski, Janis and Kampmann, Alexandru and Mokhtarian, Armin and
Kowalewski, Stefan and Alrifaae, Bassam },
  title = { Cyber-Physical Mobility Lab : An Open-Source Platform for
Networked and Autonomous Vehicles },
  booktitle = { 2021 European Control Conference (ECC) },
  publisher = { IEEE },
  pages = { 1937-1944 },
  year = { 2021 },
  address = { [Piscataway, NJ] },

```

```
organization = { 2021 European Control Conference, online, 2021-06-29 -  
2021-07-02 },  
doi = { 10.23919/ECC54610.2021.9654986 },  
typ = { PUB:(DE-HGF)7 },  
reportid = { RWTH-2022-00305 },  
cin = { 122810 / 120000 },  
url = { http://publications.rwth-aachen.de/record/838069 },  
}
```

```
@inproceedings { KDK+22,  
author = { Kloock, Maximilian Martin and Dirksen, Matthis and  
Kowalewski, Stefan and Alrifaae, Bassam },  
title = { Generation of Coupling Topologies for Multi-Agent Systems  
using Non-Cooperative Games },  
booktitle = { 2022 IEEE Intelligent Vehicles Symposium (IV) : 4-9 June  
2022 / publisher: IEEE },  
publisher = { IEEE },  
pages = { 1-8 },  
year = { 2022 },  
address = { Piscataway, NJ },  
organization = { 33. IEEE Intelligent Vehicles Symposium, Aachen  
(Germany), 2022-06-04 - 2022-06-09 },  
doi = { 10.1109/IV51971.2022.9827431 },  
typ = { PUB:(DE-HGF)7 },  
reportid = { RWTH-2022-07956 },  
cin = { 122810 / 120000 },  
url = {  
http://publications.rwth-aachen.de/record/852149/files/852149.pdf },  
}
```

```
@article { KA23,  
author = { Kloock, Maximilian Martin and Alrifaae, Bassam },  
title = { Coordinated Cooperative Distributed Decision-Making Using  
Synchronization of Local Plans },  
journal = { IEEE Transactions on Intelligent Vehicles },  
publisher = { IEEE },  
pages = { 1292-1306 },  
volume = { 8 },  
number = { 2 },  
year = { 2023 },  
address = { New York, NY },  
issn = { 2379-8858 },  
doi = { 10.1109/TIV.2023.3234189 },  
typ = { PUB:(DE-HGF)16 },  
reportid = { RWTH-2023-00601 },  
cin = { 122810 / 120000 },  
url = { http://publications.rwth-aachen.de/record/862885 },  
}
```

```
@article { KSG+23,  
author = { Kloock, Maximilian Martin and Scheffe, Patrick and Gress,
```

```
Ole and Alrifaae, Bassam },
  title = { An Architecture for Experiments in Connected and Automated
Vehicles },
  journal = { IEEE open journal of intelligent transportation systems },
  publisher = { IEEE },
  pages = { 175-186 },
  volume = { 4 },
  year = { 2023 },
  address = { [New York, NY] },
  issn = { 2687-7813 },
  doi = { 10.18154/RWTH-2023-02350 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2023-02350 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/952957/files/952957.pdf },
}

@article { KSA23,
  author = { Kloock, Maximilian Martin and Scheffe, Patrick and Alrifaae,
Bassam },
  title = { Testing distributed trajectory planning in the cyber-physical
mobility lab },
  journal = { Automatisierungstechnik },
  publisher = { De Gruyter },
  pages = { 317-325 },
  volume = { 71 },
  number = { 4 },
  year = { 2023 },
  address = { Berlin },
  issn = { 2196-677X },
  doi = { 10.18154/RWTH-2023-03773 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2023-03773 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/955879/files/955879.pdf },
}

@phdthesis { Klo23,
  author = { Kloock, Maximilian Martin },
  othercontributors = { Kowalewski, Stefan and Althoff, Matthias },
  title = { Synchronization-based cooperative trajectory planning of
networked vehicles },
  publisher = { RWTH Aachen University },
  school = { RWTH Aachen University },
  pages = { 1 Online-Ressource : Illustrationen, Diagramme },
  series = { Aachener Informatik-Berichte (AIB) },
  year = { 2023 },
  address = { Aachen },
  doi = { 10.18154/RWTH-2023-06950 },
```

```
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2023-06950 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/961661/files/961661.pdf },
}

@inproceedings { KA23a,
    author = { Kloock, Maximilian Martin and Alrifaae, Bassam },
    title = { Cooperative Pose Control of Non-Holonomic Vehicles Using
Synchronization },
    booktitle = { 2023 IEEE 26th International Conference on Intelligent
Transportation Systems (ITSC) : [Proceedings] },
    publisher = { IEEE },
    pages = { 93-99 },
    year = { 2023 },
    organization = { 26. International Conference on Intelligent
Transportation Systems, Bilbao (Spain), 2023-09-24 - 2023-09-28 },
    doi = { 10.1109/ITSC57777.2023.10422078 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2024-02092 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/980098/files/980098.pdf },
    illkey = { DFG project 273237627 - AutoKnigge - Modellierung, Bewertung
und Absicherung von Verhalten f{"u}r Kooperativ Interagierende Automobile
(273237627) },
}

@phdthesis { Klu09,
    author = { Kl{"u}nder, Daniel },
    othercontributors = { Kowalewski, Stefan },
    title = { Entwurf eingebetteter Software mit abstrakten
Zustandsmaschinen und business object notation },
    publisher = { RWTH Aachen, Department of Computer Science },
    pages = { X, 131 S. : graph. Darst. },
    series = { Aachener Informatik-Berichte },
    year = { 2009 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-114049 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/51797/files/Kluender_Daniel.pdf },
}

@inproceedings { Klu08,
    author = { Kl{"u}nder, Daniel },
    title = { Modellierung und Analyse von Fahrzeugsoftware mit Abstract
State Machines },
    booktitle = { Modellierung 2008 : 12. - 14. M{"a}rz 2008, Berlin /
```

```

Thomas K{"u}hne ... (Hrsg.) },
  publisher = { Ges. f. Informatik },
  pages = { 225-228 },
  series = { GI-Edition : Proceedings },
  year = { 2008 },
  address = { Bonn: },
  organization = { Modellierung 2008, Berlin (Germany), 2008-03-12 -
2008-03-14 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-171802 },
  cin = { 122810 / 120000 },
  url = {
http://subs.emis.de/LNI/Proceedings/Proceedings127/gi-proc-127-017.pdf },
}

```

```

@inproceedings { KKK08,
  author = { Kl{"u}nder, Daniel and Kamení, Dimitri and Kowalewski,
Stefan },
  title = { Nahtloser Entwurf sicherheitskritischer, eingebetteter
Softwaresysteme mit abstrakten Zustandsmaschinen und Business Object
Notation },
  booktitle = { Entwurf komplexer Automatisierungssysteme, EKA 2008 :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 10. Fachtagung,
15. bis 16. April 2008 Tutorium, 16. bis 17. April 2008 Fachtagung,
Magdeburg, Denkfabrik im Wissenschaftshafen / Ifak, Institut f{"u}r
Automation und Kommunikation e.V., Magdeburg ... Hrsg.: Ulrich Jumar;
Eckehard Schneider; Christian Diedrich },
  publisher = { Universit{"a}t },
  year = { 2008 },
  address = { Magdeburg },
  organization = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 10. Fachtagung,
Magdeburg (Germany), 2008-04-15 - 2008-04-16 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-171804 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/98748 },
}

```

```

@inproceedings { Klu06,
  author = { Kl{"u}nder, Daniel },
  title = { An approach to resolving contraditions in software
architecture design },
  booktitle = { Perspectives in software architecture quality : short
papers of the 2nd International Conference on the Quality of Software
Architectures (QoSA 2006), June 27 - 29, 2006, V{"a}steras, Sweden / Hrsg.:
Christine Hofmeister ... Universit{"a}t Karlsruhe, Fakult{"a}t f{"u}r
Informatik },
  publisher = { Univ., Fak. f{"u}r Informatik, Bibliothek },
  series = { Interner Bericht / Universit{"a}t Karlsruhe, Fakult{"a}t
f{"u}r Informatik },

```

```
year = { 2006 },
address = { Karlsruhe },
organization = { 2. International Conference on the Quality of Software
Architectures, V{"a"}steras (Sweden), 2006-06-27 - 2006-06-29 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-183673 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/111723 },
}

@inproceedings { Klu06a,
author = { Kl{"u"}nder, Daniel },
title = { TRIZ for Software Architecture },
booktitle = { ETRIA TRIZ future 06 : proceedings of the ETRIA TRIZ
Future Conference 2006 ; creativity, quality and efficiency building an
innovation culture ; held in Kortrijk, Belgium, October 9th - 11th, 2006 /
ETRIA; CREAX; Katholieke Universiteit Leuven. Ed.: Joost R. Duflou .... -
Vol. 1-2 },
publisher = { CREAX },
year = { 2006 },
address = { Leper, Belgium },
organization = { ETRIA TRIZ Future Conference 2006, Kortrijk (Belgium),
2006-10-09 - 2006-10-11 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-183687 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/111738 },
}

@inproceedings { Klu06b,
author = { Kl{"u"}nder, Daniel },
title = { An approach to resolving contradictions in software
architecture design },
booktitle = { Perspectives in software architecture quality : short
papers of the 2nd International Conference on the Quality of Software
Architectures (QoSA 2006), June 27 - 29, 2006, V{"a"}steras, Sweden / Hrsg.:
Christine Hofmeister ... Universit{"a"}t Karlsruhe, Fakult{"a"}t f{"u"}r
Informatik },
publisher = { Univ., Fak. f{"u"}r Informatik, Bibliothek },
pages = { 59-63 },
series = { Interner Bericht / Universit{"a"}t Karlsruhe, Fakult{"a"}t
f{"u"}r Informatik },
year = { 2006 },
address = { Karlsruhe },
organization = { 2. International Conference on the Quality of Software
Architectures, V{"a"}steras (Sweden), 2006-06-27 - 2006-06-29 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188519 },
cin = { 122810 / 120000 },
url = {
http://www.ubka.uni-karlsruhe.de/cgi-bin/psview?document=ira/2006/10 },
```

```
}

@inproceedings { KK07,
  author = { Kl{"u}nder, Daniel and Kowalewski, Stefan },
  title = { Scenario-based evaluation of abstract state machines },
  booktitle = { The 14th International ASM Workshop (ASM'07) / (Ed.)
Prinz, Andreas },
  year = { 2007 },
  organization = { 14. International ASM Workshop },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188521 },
  cin = { 122810 / 120000 },
  url = {
http://ikt.hia.no/asm07/Proceedings/Papers/Klunder_Kowalewski.pdf },
}

@inproceedings { KLK08,
  author = { Kl{"u}nder, Daniel and Li, J. and Kowalewski, Stefan },
  title = { Design-by-Contract for Embedded Systems },
  booktitle = { International Symposium on Software Variability: a
Programmers' Perspective (SVPP 2008) },
  year = { 2008 },
  organization = { International Symposium on Software Variability: a
Programmers' Perspective },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236338 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752319 },
}

@inproceedings { KBL+19,
  author = { K{"o}hl, Maximilian A. and Baum, Kevin and Langer, Markus
and Oster, Daniel and Speith, Timo and Bohlender, Dimitri },
  title = { Explainability as a Non-Functional Requirement },
  booktitle = { 2019 IEEE 27th International Requirements Engineering
Conference : 23-27 September 2019, Jeju Island, South Korea : proceedings /
editors: Daniela Damian and Anna Perini (Program Chairs), Seok-Won Lee
(General Chair) },
  publisher = { IEEE },
  pages = { 363-368 },
  year = { 2019 },
  address = { Piscataway, JN },
  organization = { IEEE 27. International Requirements Engineering
Conference, Jeju Island (South Korea), 2019-09-23 - 2019-09-27 },
  doi = { 10.1109/RE.2019.00046 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2019-12206 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/775403 },
}
```

```
@article { KGE+20,  
  author = { K{"o"}nig, Georg and Grochowski, Marco and Eckert, Marvin  
and Jakobczak, F. and Stollenwerk, Jochen and Kowalewski, S. and Loosen,  
Peter },  
  title = { Apparat zur automatisierten Justage optischer Systeme },  
  journal = { DGaO-Proceedings },  
  volume = { 2020 },  
  year = { 2020 },  
  address = { Erlangen-N{"u"}rnberg: Dt. Gesellschaft f{"u"}r angewandte  
Optik },  
  issn = { 1614-8436 },  
  organization = { 121. Jahrestagung der deutschen Gesellschaft f{"u"}r  
angewandte Optik, Bremen (Germany), 2020-06-02 - 2020-06-06 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2020-08983 },  
  cin = { 418910 / 080067 / 122810 / 120000 },  
  url = { http://www.dgao-proceedings.de },  
  illkey = { WS-C.II - Enablers and Tools (X080067-WS-C.II) },  
}  
  
@article { KLK09,  
  author = { Kopp, R{"u"}dger and Leonhardt, Steffen and Kowalewski,  
Stefan },  
  title = { Extracorporeal Membrane Oxygenation for Cardiac and Pulmonary  
Indications: Improving Patient Safety },  
  journal = { Yearbook of intensive care and emergency medicine },  
  publisher = { Springer },  
  pages = { 341-349 },  
  volume = { 2009 },  
  year = { 2009 },  
  address = { Berlin [u.a.] },  
  issn = { 0942-5381 },  
  doi = { 10.1007/978-0-387-92278-2_33 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-CONV-095468 },  
  cin = { 120000533000-3533000-2 / 122810 / 611010 },  
  url = { http://publications.rwth-aachen.de/record/83542 },  
}  
  
@article { KWA+09,  
  author = { Kopp, R{"u"}dger and Walter, Marian and Arens, Jutta and  
Stollenwerk, Andr{e} and Leonhardt, Steffen and Schmitz-Rode, Thomas and  
Kowalewski, Stefan and Rossaint, Rolf },  
  title = { Regelungs- und Sicherheitskonzepte f{"u"}r extrakorporale zur  
Lungenunterst{"u"}tzung },  
  journal = { Biomedizinische Technik = Biomedical engineering },  
  publisher = { de Gruyter },  
  pages = { 289-297 },  
  volume = { 54 },  
  number = { 5 },  
  year = { 2009 },
```

```
    address = { Berlin [u.a.] },
    issn = { 0013-5585 },
    doi = { 10.1515/BMT.2009.036 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-013750 },
    cin = { 120000533000-3811001-1533000-2 / 122810 / 611010811001-4 },
    url = { http://publications.rwth-aachen.de/record/132651 },
}

@article { KRS+11,
  author = { Kopp, R{"u}dger and Rossaint, Rolf and Schmitz-Rode, Thomas
and Steinseifer, Ulrich and Arens, Jutta and Bensberg, Ralf and Henzler,
Dietrich },
  title = { A Miniaturized Extracorporeal Membrane Oxygenator with
Integrated Rotary Blood Pump: Preclinical In Vivo Testing },
  journal = { ASAIO journal },
  publisher = { Lippincott },
  pages = { 158-163 },
  volume = { 57 },
  number = { 3 },
  year = { 2011 },
  address = { Hagerstown, Md. },
  issn = { 0162-1432 },
  doi = { 10.1097/MAT.0b013e31820bffa9 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-022380 },
  cin = { 120000 / 122810811001-4 },
  url = { http://publications.rwth-aachen.de/record/142316 },
}

@inproceedings { KBW+11,
  author = { Kopp, R{"u}dger and Bensberg, Ralf and Walter, Marian and
Arens, Jutta and Rossaint, Rolf and Stollenwerk, Andr{e} },
  title = { Automation of extracorporeal membrane oxygenation using a
combined safety and control concept },
  booktitle = { Intensive care medicine },
  publisher = { Springer },
  pages = { 230-230 },
  volume = { 37 },
  number = { S1 },
  year = { 2011 },
  address = { Berlin [u.a.] },
  issn = { 0340-0964 },
  organization = { ESICM LIVES 2011 : 24. Annual Congress, Berlin
(Germany), 2011-10-01 - 2011-10-05 },
  doi = { 10.1007/s00134-011-2322-1 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-003313 },
  cin = { 122810 / 611010 / 120000 },
  url = { http://publications.rwth-aachen.de/record/156873 },
}
```

```
@article { KBS+16,  
  author = { Kopp, R{"u}dger and Bensberg, Ralf and Stollenwerk, Andr{e}  
and Arens, Jutta and Grottke, Oliver and Walter, Marian and Rossaint, Rolf  
},  
  title = { Automatic Control of Veno-Venous Extracorporeal Lung Assist :  
Presented in part at the 13th Congress of DIVI held December 4-6, 2013 in  
Leipzig, Germany },  
  journal = { Artificial organs },  
  publisher = { Wiley-Blackwell },  
  pages = { 992-998 },  
  volume = { 40 },  
  number = { 10 },  
  year = { 2016 },  
  address = { Oxford [u.a.] },  
  issn = { 0160-564X },  
  doi = { 10.1111/aor.12664 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2016-01084 },  
  cin = { 611010533000-2533000-3 / 122810811001-1 / 120000811001-4 },  
  url = { http://publications.rwth-aachen.de/record/567958 },  
}
```

```
@proceedings { KP09,  
  editor = { Kowalewski, Stefan and Philippou, Anna },  
  title = { Tools and algorithms for the construction and analysis of  
systems : 15th international conference, TACAS 2009, held as part of the  
Joint European Conferences on Theory and Practice of Software, ETAPS 2009,  
York, UK, March 22-29, 2009 ; proceedings / Stefan Kowalewski; Anna  
Philippou (eds.) },  
  publisher = { Springer },  
  pages = { XVI, 456 S. : graph. Darst. },  
  volume = { 5505 },  
  series = { Lecture notes in computer science : Theoretical computer  
science and general issues },  
  year = { 2009 },  
  address = { Berlin [u.a.] },  
  typ = { PUB:(DE-HGF)26 },  
  reportid = { RWTH-CONV-093514 },  
  cin = { 122810 / 120000 },  
  url = {  
http://www.springer.com/computer/theoretical+computer+science/book/978-3-540  
-41865-8 },  
}
```

```
@inproceedings { KRS12,  
  author = { Kowalewski, Stefan and Rumpe, Bernhard and Stollenwerk,  
Andr{e} },  
  title = { Cyber-Physical Systems - eine Herausforderung an die  
Automatisierungstechnik? },  
  booktitle = { Automation 2012 : der 13. Branchentreff der Mess- und  
Automatisierungstechnik / VDI/VDE-Gesellschaft Mess- und
```

```
Automatisierungstechnik ; Kongress 'Automation 2012' ; 13 (Baden-Baden) ;
2011.06.13-14Branchentreff der Mess- und Automatisierungstechnik },
  publisher = { VDI-Verl. },
  pages = { 113-116 },
  series = { VDI-Berichte },
  year = { 2012 },
  address = { D{"u}sseldorf },
  organization = { 13. Branchentreff der Mess- und
Automatisierungstechnik, Baden-Baden (Germany), 2011-06-13 - 2011-06-14 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-194506 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/123658 },
}
```

```
@proceedings { KR13,
  editor = { Kowalewski, Stefan and Rumpe, Bernhard },
  title = { Software Engineering 2013 : Fachtagung des GI-Fachbereichs
Softwaretechnik 26. Februar - 1. M{"a}rz 2013 in Aachen },
  publisher = { Ges. f{"u}r Informatik },
  pages = { 379 S. : Ill., graph. Darst. },
  volume = { 213 },
  series = { GI-Edition : Proceedings },
  year = { 2013 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)26 },
  reportid = { RWTH-CONV-108546 },
  cin = { 120000 / 121510 / 122810 },
  url = { http://publications.rwth-aachen.de/record/206706 },
}
```

```
@article { KRR14,
  author = { Kowalewski, Stefan and Ringert, Jan Oliver and Rumpe,
Bernhard },
  title = { Editorial for the Software Engineering 2013 Conference },
  journal = { Computer science - research and development },
  publisher = { Springer },
  pages = { 229-230 },
  volume = { 30 },
  year = { 2014 },
  address = { Berlin },
  issn = { 1865-2034 },
  doi = { 10.1007/s00450-014-0274-8 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2015-03183 },
  cin = { 121510 / 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/479562 },
}
```

```
@article { KK0+15,
  author = { Kowalewski, Stefan and Kalkov, Igor and Obster, Mathias and
```

```
Th{"o"}nnessen, David },
  title = { Echtzeiterweiterung f{"u"}r Android: SPS inside },
  journal = { IEE - Elektrische Automatisierung + Antriebstechnik },
  publisher = { IEE },
  pages = { 58-61 },
  year = { 2015 },
  issn = { 1434-2898 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-236305 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752275 },
}

@article { KPB13,
  author = { Kowalewski, Stefan and Philippou, A. and Brauer, J. },
  title = { Model checking and abstract interpretation as building blocks
of advanced program analysis techniques },
  journal = { International journal on software tools for technology
transfer : STTT },
  publisher = { Springer },
  pages = { 287-289 },
  volume = { 15 },
  number = { 4 },
  year = { 2013 },
  address = { Berlin ; Heidelberg [u.a.] },
  issn = { 1433-2787 },
  organization = { 15. International Conference, TACAS 2009, York (UK),
2009-03-22 - 2009-03-29 },
  doi = { 10.1007/s10009-013-0280-3 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-236324 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752289 },
}

@conference { KS11,
  author = { Kowalewski, Stefan and Stollenwerk, André },
  title = { Supporting Evolving Requirements in CPS by Abstraction Layers
in the Architecture },
  booktitle = { Workshop on Architectures for Cyber-Physical Systems,
Chicago, IL, USA },
  year = { 2011 },
  typ = { PUB:(DE-HGF)5 },
  reportid = { RWTH-CONV-236332 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752309 },
}

@proceedings { KR10,
  editor = { Kowalewski, Stefan and Roveri, Marco },
  title = { Formal Methods for Industrial Critical Systems : 15th
```

International Workshop, FMICS 2010, Antwerp, Belgium, September 20-21, 2010. Proceedings },

publisher = { Springer Berlin Heidelberg },

volume = { 6371 },

series = { Lecture notes in computer science },

year = { 2010 },

address = { Berlin, Heidelberg },

organization = { Formal Methods for Industrial Critical Systems : 15.

International Workshop, Antwerp (Belgium), 2010-09-20 - 2010-09-21 },

doi = { 10.1007/978-3-642-15898-8 },

typ = { PUB:(DE-HGF)26 },

reportid = { RWTH-CONV-236340 },

cin = { 122810 / 120000 },

url = { <http://publications.rwth-aachen.de/record/752312> },

}

@inbook { KGG+09,

author = { Kowalewski, Stefan and Garavello, Mauro and Guéguen, Hervé and Herberich, Gerlind and Langerak, Rom and Piccoli, Benedetto and Jan, Willem Polderman and Weise, Carsten },

title = { Hybrid automata },

booktitle = { Handbook of hybrid systems control : theory, tools, applications / edited by Jan Lunze, Françoise Lamnabhi-Lagarrigue },

publisher = { Cambridge University Press [2009] },

pages = { 57-86 },

year = { 2009 },

address = { Cambridge },

doi = { 10.1017/CB09780511807930.004 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-CONV-236342 },

cin = { 120000 / 122810 },

url = { <http://publications.rwth-aachen.de/record/752315> },

}

@article { KRG+18,

author = { Kriebel, Stefan and Richenhagen, Johannes Martin and Granrath, Christian and Kugler, Christopher },

title = { Systems engineering with SysML : The path to the future? },

journal = { MTZ worldwide },

publisher = { Springer Fachmedien },

pages = { 44-47 },

volume = { 79 },

number = { 5 },

year = { 2018 },

address = { Wiesbaden },

issn = { 2192-9114 },

doi = { 10.1007/s38313-018-0030-8 },

typ = { PUB:(DE-HGF)16 },

reportid = { RWTH-2018-227692 },

cin = { 412310 / 121510 / 122810 / 120000 },

url = { <http://publications.rwth-aachen.de/record/731737> },

```
}

@article { KRG+18a,
  author = { Kriebel, Stefan and Richenhagen, Johannes Martin and
Granrath, Christian and Kugler, Christopher },
  title = { Systems Engineering mit SysML : Der Weg in die Zukunft? },
  journal = { Motortechnische Zeitschrift : MTZ },
  publisher = { Springer Fachmedien },
  pages = { 48-53 },
  volume = { 79 },
  number = { 5 },
  year = { 2018 },
  address = { Wiesbaden },
  issn = { 2192-8843 },
  doi = { 10.1007/s35146-018-0025-7 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2018-227695 },
  cin = { 412310 / 122810 / 120000 / 121510 },
  url = { http://publications.rwth-aachen.de/record/731745 },
}

@inproceedings { KKR+17,
  author = { Kugler, Christopher and Kowalewski, Stefan and Richenhagen,
Johannes Martin and Maquet, Ralf and Schlo{\ss}er, Axel },
  title = { Metrics-based strategies for quality assurance of automotive
embedded software },
  booktitle = { 17. Internationales Stuttgarter Symposium : Automobil-
und Motorentechnik / herausgegeben von Michael Bargende, Hans-Christian
Reuss, Jochen Wiedemann. - Band 2 },
  publisher = { Springer Vieweg, },
  pages = { 711-730 },
  series = { Proceedings },
  year = { 2017 },
  address = { Wiesbaden ; [Heidelberg] },
  organization = { 17. Stuttgart International Symposium Automotive and
Engine Technology = 17. Internationales Stuttgarter Symposium Automobil- und
Motorentechnik, Stuttgart (Germany), 2017-03-14 - 2017-03-15 },
  doi = { 10.1007/978-3-658-16988-6_56 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236302 },
  cin = { 122810 / 120000 / 412310 },
  url = { http://publications.rwth-aachen.de/record/752278 },
}

@phdthesis { Kug23,
  author = { Kugler, Christopher },
  othercontributors = { Kowalewski, Stefan and Pischinger, Stefan },
  title = { Systematic derivation of feature-driven and risk-based test
strategies for automotive applications },
  publisher = { RWTH Aachen University },
  school = { RWTH Aachen University },
}
```

```

    pages = { 1 Online-Ressource : Illustrationen, Diagramme },
    series = { Aachener Informatik-Berichte (AIB) },
    year = { 2023 },
    address = { Aachen },
    doi = { 10.18154/RWTH-2023-05715 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2023-05715 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/959607/files/959607.pdf },
}

@inproceedings { KSS+15,
    author = { K{"u}hn, Jan and Schoonbrood, Pierre and Stollenwerk, Andr  
and Brendle, Christian and Wardeh, Markus Nabil and Walter, Marian and
Roissant, Rolf and Leonhardt, Steffen and Kowalewski, Stefan and Kopp,
R{"u}dger },
    title = { Safety Conflict Analysis in Medical Cyber-Physical Systems
Using an SMT-Solver },
    booktitle = { SE-WS 2015, software engineering workshops 2015 :
gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2015,
Dresden, 17. - 18. M{"a}rz 2015 / hrsg. von Wolg Zimmermann ... },
    publisher = { RWTH Aachen },
    pages = { 19-23 },
    series = { CEUR workshop proceedings },
    year = { 2015 },
    address = { Aachen, Germany },
    organization = { Software Engineering 2015, Dresden (Germany),
2015-03-17 - 2015-03-18 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-2015-01765 },
    cin = { 611010 / 122810533000-2 / 120000 },
    url = { http://nbn-resolving.de/urn:nbn:de:0074-1337-4 },
    illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

@article { KSK+15,
    author = { K{"u}hn, Jan and Stollenwerk, Andr   and Kowalewski, Stefan
and Brendle, Christian and Walter, Marian and Leonhardt, Steffen and Wardeh,
Markus Nabil and Kopp, R{"u}dger and Rossaint, Rolf },
    title = { Pulsatile Ansteuerung einer Diagonalblutpumpe },
    journal = { Atp-Edition },
    publisher = { DIV Dt. Industrieverl. },
    pages = { 52-59 },
    volume = { 57 },
    number = { 10 },
    year = { 2015 },
    address = { M{"u}nchen },
    issn = { 0178-2320 },

```

```

    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2015-05802 },
    cin = { 611010533000-2 / 122810 / 120000 },
    url = {
https://www.di-verlag.de/de/Zeitschriften/atp-edition/2015/10/Pulsatile-Anst
euerung-einer-Diagonalblutpumpe },
    illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u"}tzung und Beatmung f{"u"}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

@inproceedings { KWS+15,
    author = { K{"u"}hn, Jan and W{"u"}bbels, Nico and Stollenwerk, André
and Kowalewski, Stefan and Brendle, Christian and Walter, Marian and
Leonhardt, Steffen and Wardeh, Markus and Kopp, R{"u"}dger and Roissant,
Rolf },
    title = { Pulsatile Ansteuerung einer Diagonalblutpumpe },
    booktitle = { Automation 2015 : 16. Branchentreff der Mess- und
Automatisierungstechnik, 11. und 12. Juni 2015, Baden-Baden / VDI/VDE-
Gesellschaft Mess- und Automatisierungstechnik },
    publisher = { VDI-Verl. },
    pages = { 325-339 },
    series = { VDI-Berichte },
    year = { 2015 },
    address = { D{"u"}sseldorf },
    organization = { AUTOMATION 2015, Baden Baden (Germany), 2015-06-11 -
2015-06-12 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2015-05806 },
    cin = { 611010 / 122810 / 120000533000-2 },
    url = { http://publications.embedded.rwth-aachen.de/file/65 },
    illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u"}tzung und Beatmung f{"u"}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

@inproceedings { KSB+15,
    author = { K{"u"}hn, Jan and Stollenwerk, André and Brendle, Christian
and Walter, Marian and Wardeh, Markus Nabil and Kopp, R{"u"}dger and
Kowalewski, Stefan },
    title = { Embedded Safety Measures for Extracorporeal Blood Circulation
},
    booktitle = { [Proceedings of the 11th German-Russian-Conference on
Biomedical Engineering, GRC, 17.06.2015-19.06.2015, Aachen, Germany] },
    pages = { 169-170 },
    year = { 2015 },
    organization = { 11. German-Russian-Conference on Biomedical
Engineering, Aachen (Germany), 2015-06-17 - 2015-06-19 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-2015-07467 },
    cin = { 611010 / 122810 / 120000 },

```

```

url = { http://publications.rwth-aachen.de/record/564784 },
}

@inproceedings { KSB+16,
  author = { K{"u}hn, Jan and Stollenwerk, André and Brendle, Christian
and Janisch, Thorsten and Walter, Marian and Rossaint, Rolf and Leonhardt,
Steffen and Kowalewski, Stefan and Kopp, R{"u}dger },
  title = { Sensor Supervision and Control Value Limitations in Networked
Intensive Care },
  booktitle = { [Gemeinsamer Tagungsband der Workshops der Tagung
Software Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 / Edited
by: Wolf Zimmermann, Lukas Alperowitz, Bernd Br{"u}gge, J{"o}rn Fahsel,
Andrea Herrmann, Anne Hoffmann, Andreas Krall, Dieter Landes, Horst Lichter,
Dirk Riehle, Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer,
Sibylle Schupp, Andreas Seitz, Andreas Steffens, André Stollenwerk,
R{"u}diger Wei{\ss}bach] },
  publisher = { RWTH Aachen },
  pages = { 187-194 },
  series = { CEUR Workshop Proceedings },
  year = { 2016 },
  address = { Aachen, Germany },
  organization = { 2. Workshop on Fail Safety in Medical Cyber-Physical
Systems, Wien (Austria), 2016-02-26 - 2016-02-26 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-207901 },
  cin = { 122810 / 120000 / 611010 / 9210120533000-2 },
  url = { http://ceur-ws.org/Vol-1559/paper25.pdf },
  illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

@inproceedings { KVS+16,
  author = { K{"u}hn, Jan and Vaitl, Lorenz and Stollenwerk, André and
Brendle, Christian and Walter, Marian and Leonhardt, Steffen and Kowalewski,
Stefan and Rossaint, Rolf and Kopp, R{"u}dger and Janisch, Thorsten },
  title = { Eingebettete Reizkulationsmessung f{"u}r eine ECLA-Therapie
},
  booktitle = { AUTOMED 2016 : Workshop : Wismar, 22.-23. September 2016
/ DGBMT - Deutsche Gesellschaft f{"u}r Biomedizinische Technik im VDE ;
Editoren: Prof. Dr.-Ing. habil. Olaf Simanski, Dr. Olaf Hagendorf, J{"o}rg
Zucknik },
  publisher = { Hochschule Wismar, Fakult{"a"}t f{"u}r
Ingenieurwissenschaften, Fachgebiet Automatisierungstechnik/Mechatronik },
  pages = { 2 Seiten },
  year = { 2016 },
  address = { Wismar },
  organization = { Automatisierungsverfahren f{"u}r die Medizin 2016,
Wismar (Germany), 2016-09-22 - 2016-09-23 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-00655 },

```

```

    cin = { 611010 / 122810533000-2 / 120000533000-3 },
    url = {
http://automated2016.hs-wismar.de/wp-content/uploads/2017/02/Kuehn_Informatik1
1_RWTHAachen.pdf },
    illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{\u}tzung und Beatmung f{\u}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

@article { KBS+17,
    author = { K{\u}hn, Jan and Brendle, Christian and Stollenwerk, André
and Schweigler, Martin and Kowalewski, Stefan and Janisch, Thorsten and
Rossaint, Rolf and Leonhardt, Steffen and Walter, Marian and Kopp,
R{\u}dger },
    title = { Decentralized safety concept for closed-loop controlled
intensive care : Supervision of a blood pump during extracorporeal
circulation },
    journal = { Biomedical engineering = Biomedizinische Technik },
    publisher = { de Gruyter },
    pages = { 213-224 },
    volume = { 62 },
    number = { 2 },
    year = { 2017 },
    address = { Berlin [u.a.] },
    issn = { 1862-278X },
    doi = { 10.1515/bmt-2016-0087 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2017-09486 },
    cin = { 611010 / 122810533000-2533000-3 / 120000533000-3533000-2 },
    url = { http://publications.rwth-aachen.de/record/707857 },
}

@inproceedings { KBS+19,
    author = { K{\u}hn, Jan and Buglowski, Mateusz and Stollenwerk, André
and Kowalewski, Stefan and Walter, Marian and Leonhardt, Steffen and Petran,
Jan and Kopp, R{\u}dger and Rossaint, Rolf and Janisch, Thorsten },
    title = { Fault Identification in a Blood Pump Using Neural Networks },
    booktitle = { World Congress on Medical Physics and Biomedical
Engineering 2018 : June 3-8, 2018, Prague, Czech Republic (Vol.2) / edited
by Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott },
    publisher = { Springer Singapore },
    pages = { 27-32 },
    series = { IFMBE Proceedings },
    year = { 2019 },
    address = { Singapore },
    organization = { IUPESM World Congress on Medical Physics and
Biomedical Engineering, Prague (Czech Republic), 2018-06-03 - 2018-06-08 },
    doi = { 10.1007/978-981-10-9038-7_6 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2018-231048 },
    cin = { 533000-2 / 122810 / 120000 / 611010 },

```

```

url = { http://publications.rwth-aachen.de/record/751048 },
illkey = { BMBF-031L0134B - Alternativmethoden - Verbund: AutoMock -
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{"u"}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{"a"}tstestung von Membranoxygenatoren und zur
Transplantationssimulation (BMBF-031L0134B) },
}

```

```

@inproceedings { KSK+18,
author = { K{"u"}hn, Jan and Stollenwerk, André and Kowalewski, Stefan
and Fabry, Gregor and Grzanna, Tim and Doorschodt, Benedict and Tolba, René
H. and Rossaint, Rolf and Bleilevens, Christian },
title = { A long-term setup for kidney perfusion },
year = { 2018 },
organization = { 52. Annual Conference of the German Society for
Biomedical Engineering, Aachen (Germany), 2018-09-26 - 2018-09-28 },
typ = { PUB:(DE-HGF)6 },
reportid = { RWTH-CONV-236288 },
cin = { 122810 / 120000527000-2 / 9210105 },
url = { http://publications.rwth-aachen.de/record/752261 },
illkey = { BMBF-031L0134B - Alternativmethoden - Verbund: AutoMock -
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{"u"}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{"a"}tstestung von Membranoxygenatoren und zur
Transplantationssimulation (BMBF-031L0134B) },
}

```

```

@inproceedings { KSM15,
author = { K{"u"}hnel, Marián and Smieschek, Manfred and Meyer, Ulrike
},
title = { Fast Identification of Obfuscation and Mobile Advertising in
Mobile Malware },
booktitle = { 2015 IEEE Trustcom/BigDataSE/ISPA : 20 - 22 Aug. 2015,
Helsinki, Finland / sponsored by IEEE and IEEE Computer Society, and
endorsed by IEEE Technical Committee on Scalable Computing (TCSC) ... - Vol.
3 },
publisher = { IEEE },
pages = { 214-221 },
year = { 2015 },
address = { Piscataway, NJ },
organization = { IEEE International Conference on Trust, Security and
Privacy in Computing and Communications ; 14, Helsinki (Finland), 2015-08-20
- 2015-08-22 },
doi = { 10.1109/Trustcom.2015.377 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2017-00130 },
cin = { 122810 / 123520 / 120000 },
url = { http://publications.rwth-aachen.de/record/681319 },
}

```

```

@article { LKL+21,

```

```
author = { Lamberti, Michael and Kopp, R{"u}diger and L{"u}bke, Cavan  
and Leonhardt, Steffen and Walter, Marian and Stollenwerk, André },  
title = { Safety and Automation Concepts for Artificial Impantable  
Lungs - SmartLungControl },  
journal = { Biomedical engineering },  
publisher = { de Gruyter },  
volume = { 66 },  
number = { s1 },  
year = { 2021 },  
address = { Berlin [u.a.] },  
issn = { 0013-5585 },  
organization = { 55. DGBMT Annual Conference on Biomedical Engineering,  
Hannover (Germany), 2021-10-05 - 2021-10-07 },  
doi = { 10.1515/bmt-2021-6028 },  
typ = { PUB:(DE-HGF)1 },  
reportid = { RWTH-2022-00769 },  
cin = { 611010 / 122810533000-3 / 120000 },  
url = { https://doi.org/10.1515/bmt-2021-6028 },  
}
```

```
@inproceedings { LvW+20,  
author = { Lampe, Bastian and van Kempen, Raphael and Woopen, Timo and  
Kampmann, Alexandru and Alrifaae, Bassam and Eckstein, Lutz },  
title = { Reducing Uncertainty by Fusing Dynamic Occupancy Grid Maps in  
a Cloud-based Collective Environment Model },  
booktitle = { 2020 IEEE Intelligent Vehicles Symposium (IV) /  
publisher: IEEE },  
publisher = { IEEE },  
pages = { 837-843 },  
year = { 2020 },  
address = { Piscataway, NJ },  
organization = { 31. IEEE Intelligent Vehicles Symposium, online,  
2020-10-19 - 2020-11-13 },  
doi = { 10.1109/IV47402.2020.9304816 },  
typ = { PUB:(DE-HGF)7 },  
reportid = { RWTH-2021-02777 },  
cin = { 414110 / 122810 / 120000 },  
url = { http://publications.rwth-aachen.de/record/815706 },  
}
```

```
@article { LvW+20a,  
author = { Lampe, Bastian and van Kempen, Raphael and Woopen, Timo and  
Kampmann, Alexandru and Alrifaae, Bassam and Eckstein, Lutz },  
title = { Reducing Uncertainty by Fusing Dynamic Occupancy Grid Maps in  
a Cloud-based Collective Environment Model },  
pages = { 7 Seiten },  
year = { 2020 },  
typ = { PUB:(DE-HGF)25 },  
reportid = { RWTH-2021-04037 },  
cin = { 414110 / 122810 / 120000 },  
url = {
```

```
http://publications.rwth-aachen.de/record/817686/files/817686.pdf },
}
```

```
@inproceedings { LWW+09,
  author = { Leonhardt, Steffen and Walter, Marian and Wartzek, Tobias
and Kashefi, Ali and Stollenwerk, André and Kopp, R{"u"}dger },
  title = { Regelung des Gasaustauschs f{"u"}r die extrakorporale
Oxygenierung },
  booktitle = { Automation 2009 : der Automatisierungskongress in
Deutschland ; Kongress Baden-Baden, 16. und 17. Juni 2009 ; [10.
Branchentreff der Mess- und Automatisierungstechnik] / VDI/VDE-Gesellschaft
Mess- und Automatisierungstechnik. - 2067 },
  publisher = { VDI-Verl. },
  pages = { 281-285 },
  series = { VDI-Berichte },
  year = { 2009 },
  address = { D{"u"}sseldorf },
  organization = { Automation 2009 : der Automatisierungskongress in
Deutschland, 2009-06-16 - 2009-06-17 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172523 },
  cin = { 122810 / 611010 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99564 },
}
```

```
@book { Leo17,
  author = { Leonhardt, Steffen },
  title = { Special Issue: Smart Life Support },
  booktitle = { Biomedical engineering = Biomedizinische Technik },
  publisher = { de Gruyter },
  pages = { 109-233 },
  volume = { 62 },
  number = { 2 },
  year = { 2017 },
  address = { Berlin [u.a.] },
  issn = { 1862-278X },
  typ = { PUB:(DE-HGF)3 },
  reportid = { RWTH-2017-09573 },
  cin = { 122810 / 120000 / 611010 },
  url = { https://www.degruyter.com/journal/key/bmte/62/2/html },
}
```

```
LBK15,
  author = { Lukas, Mario and Borchers, Jan Oliver and Kowalewski, Stefan
},
  title = { FabScan Pi : an open-hardware stand-alone web-enabled 3D
scanner },
  school = { Aachen, Techn. Hochsch. },
  pages = { XXI, 63 S. : Ill., graph. Darst. },
  year = { 2015 },
  address = { Aachen },
```

```
    typ = { PUB:(DE-HGF)2 },
    reportid = { RWTH-2015-06550 },
    cin = { 122710 / 120000 / 122810 },
    url = { http://hci.rwth-aachen.de/materials/publications/lukas2015a.pdf
},
}
```

```
@article { LKT05,
    author = { Lyons, Michael J. and Kl{"u}nder, Daniel and Tetsutani,
Nobuji },
    title = { Supporting empathy in online learning with artificial
expressions },
    journal = { Educational technology & society },
    publisher = { International Forum of Educational Technology & Society
},
    pages = { 22-30 },
    volume = { 8 },
    number = { 4 },
    year = { 2005 },
    address = { Palmerston North },
    issn = { 1176-3647 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-066564 },
    cin = { 122810 / 120000 },
    url = { http://www.ifets.info/journals/8_4/4.pdf },
}
```

```
MKA17,
    author = { Maczijekowski, Janis and Kowalewski, Stefan and Alrifaae,
Bassam },
    title = { Real-time Trajectory Optimization for Autonomous Vehicle
Racing },
    school = { RWTH Aachen University },
    pages = { 68 S. },
    year = { 2017 },
    doi = { 10.18154/RWTH-2017-10352 },
    typ = { PUB:(DE-HGF)2 },
    reportid = { RWTH-2017-10352 },
    cin = { 120000 / 122810 },
    url = {
http://publications.rwth-aachen.de/record/710049/files/710049.pdf },
}
```

```
@article { MBF+21,
    author = { Marx, Gernot and Bickenbach, Johannes and Fritsch, Sebastian
Johannes and Kunze, Julian Benedict and Maassen, Oliver and Deffge, Saskia
and Kistermann, Jennifer and Haferkamp, Silke Dorothee and Lutz, Irina and
Voellm, Nora Kristiana and Lowitsch, Volker and Polzin, Richard and
Sharafutdinov, Konstantin and Mayer, Hannah and Kuepfer, Lars and Burghaus,
Rolf and Schmitt, Walter and Lippert, Joerg and Riedel, Morris and Barakat,
Chadi and Stollenwerk, Andr{e} and Fonck, Simon and Putensen, Christian and
```

Zenker, Sven and Erdfelder, Felix and Grigutsch, Daniel and Kram, Rainer and Beyer, Susanne and Kampe, Knut and Gewehr, Jan Erik and Salman, Friederike and Juers, Patrick and Kluge, Stefan and Tiller, Daniel and Wisotzki, Emilia and Gross, Sebastian and Homeister, Lorenz and Bloos, Frank and Scherag, André and Ammon, Danny and Mueller, Susanne and Palm, Julia and Simon, Philipp and Jahn, Nora and Loeffler, Markus and Wendt, Thomas and Schuerholz, Tobias and Groeber, Petra and Schuppert, Andreas },

title = { Algorithmic surveillance of ICU patients with acute respiratory distress syndrome (ASIC) : protocol for a multicentre stepped-wedge cluster randomised quality improvement strategy },

journal = { BMJ open },

publisher = { BMJ Publishing Group },

pages = { 1-7 },

volume = { 11 },

number = { 4 },

year = { 2021 },

address = { London },

issn = { 2044-6055 },

doi = { 10.1136/bmjopen-2020-045589 },

typ = { PUB:(DE-HGF)16 },

reportid = { RWTH-2021-03718 },

cin = { 122810 / 120000533000-39600108-1530000-4530000-7533000-2 },

url = {

<http://publications.rwth-aachen.de/record/817136/files/817136.pdf> },

illkey = { SMITH - Medizininformatik-Konsortium (BMBF-01ZZ1803K) },

}

@article { MDA+11,

author = { Maschuw, Jan P. and Diab, Hilal and Abel, Dirk and Kowalewski, Stefan },

title = { Control Design for Generalized Platoon Problems },

journal = { Automatisierungstechnik : at },

publisher = { Oldenbourg },

pages = { 721-729 },

volume = { 59 },

number = { 12 },

year = { 2011 },

address = { M{"u"}nchen },

issn = { 0178-2312 },

doi = { 10.1524/auto2011.0965 },

typ = { PUB:(DE-HGF)16 },

reportid = { RWTH-CONV-043232 },

cin = { 120000 / 122810 },

url = { <http://publications.rwth-aachen.de/record/165377> },

}

@article { MVC+18,

author = { Merchant, Farhad and Vawani, Tarun and Chattopadhyay, Anupam and Raha, Soumyendu and Nandy, S. K. and Narayan, Ranjani },

title = { Efficient Realization of Householder Transform Through Algorithm-Architecture Co-Design for Acceleration of QR Factorization },

```
journal = { IEEE transactions on parallel and distributed systems },
publisher = { IEEE },
pages = { 1707-1720 },
volume = { 29 },
number = { 8 },
year = { 2018 },
address = { New York, NY },
issn = { 1045-9219 },
doi = { 10.1109/TPDS.2018.2803820 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2018-227400 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/731326 },
}

@inproceedings { MPB+11,
  author = { Merschen, Daniel and Polzer, Andreas and Botterweck,
G{"o"}tz and Kowalewski, Stefan },
  title = { Experiences of Applying Model-based Analysis to Support the
Development of Automotive Software Product Lines },
  booktitle = { VaMoS 11 : fifth International Workshop on Variability
Modelling of Software-intensive Systems ; 27 -29 January, 2011, Namur,
Belgium ; proceedings / Krzysztof Czarnecki ... (eds.) },
  publisher = { ACM },
  pages = { 141-150 },
  year = { 2011 },
  address = { New York, NY },
  organization = { 5. International Workshop on Variability Modelling of
Software-intensive Systems, Namur (Belgium), 2011-01-27 - 2011-01-29 },
  doi = { 10.1145/1944892.1944910 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-191093 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/120031 },
}

@inproceedings { MDR+12,
  author = { Merschen, Daniel and Duhr, Yves and Ringler, Thomas and
Hedenetz, Bernd and Kowalewski, Stefan },
  title = { Model-Based Analysis of Design Artefacts Applying an
Annotation Concept },
  booktitle = { Proceedings 198 Software Engineering 2012 - Fachtagung
des GI-Fachbereichs Softwaretechnik : 27. Februar - 2. M{"a"}rz 2012 in
Berlin / J{"a"}hnichen, Stefan [Hrsg.] ; K{"u"}pper, Axel [Hrsg.] ;
Albayrak, Sahin [Hrsg.] },
  publisher = { Gesellschaft f{"u"}r Informatik e.V. },
  pages = { 169-180 },
  series = { GI-Edition : Proceedings },
  year = { 2012 },
  address = { Bonn },
  organization = { 198 Software Engineering 2012 - Fachtagung des GI-
```

```
Fachbereichs Softwaretechnik, Berlin (Germany), 27-02-2012 - 02-03-2012 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198213 },
  cin = { 120000 / 122810 },
  url = {
http://subs.emis.de/LNI/Proceedings/Proceedings198/article6657.html },
}

@phdthesis { Mer14,
  author = { Merschen, Daniel },
  othercontributors = { Kowalewski, Stefan },
  title = { Integration und Analyse von Artefakten in der modellbasierten
Entwicklung eingebetteter Software },
  publisher = { Shaker },
  pages = { XIV, 136 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2014 },
  address = { Aachen },
  isbn = { 978-3-8440-2601-6 },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-144218 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/229247/files/4967.pdf
},
}

@inproceedings { MDH+12,
  author = { Merschen, Daniel and Duhr, Yves and Hedenetz, Bernd and
Kowalewski, Stefan },
  title = { Evolutionsunterst{\u}tzung f{\u}r komplexe, modellbasierte
Software-Produktlinien },
  booktitle = { Tagungsband - Embedded Software Engineering Kongress 2012
: 3. bis 7. Dezember 2012, Sindelfingen },
  publisher = { Elektronikpraxis, Vogel Business Media GmbH & Co. KG -
M{\u}nchen \: MicroConsult Microelectronics Consulting & Training GmbH },
  pages = { 65-71 },
  year = { 2012 },
  address = { W{\u}rzburg },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236316 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752298 },
}

@inproceedings { MGP+13,
  author = { Merschen, Daniel and Gleis, Robert and Pott, Julian and
Kowalewski, Stefan },
  title = { Analysis of Simulink Models Using Databases and Model
Transformations },
  booktitle = { Model-Based Methodologies for Pervasive and Embedded
Software : 8th International Workshop, MOMPES 2012, Essen, Germany,
```

```
September 4, 2012. Revised Papers / edited by Ricardo J. Machado, Rita
Suzana P. Maciel, Julia Rubin, Goetz Botterweck },
  publisher = { Springer },
  pages = { 69-84 },
  series = { Lecture Notes in Computer Science },
  year = { 2013 },
  address = { Berlin, Heidelberg },
  organization = { Model-Based Methodologies for Pervasive and Embedded
Software : 8. International Workshop, Essen (Germany), 2012-09-04 -
2012-09-04 },
  doi = { 10.1007/978-3-642-38209-3_5 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236314 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752299 },
}

@inproceedings { MPK12,
  author = { Merschen, Daniel and Pott, Julian and Kowalewski, Stefan },
  title = { Integration and Analysis of Design Artefacts in Embedded
Software Development },
  booktitle = { IEEE 36th Annual Computer Software and Applications
Conference workshops (COMPSACW), 2012 : 16 - 20 July 2012, Izmir, Turkey /
sponsored by IEEE; IEEE Computer Society. Ed.: Xiaoying Bai ... },
  publisher = { IEEE },
  pages = { 503-508 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { IEEE 36. Annual Computer Software and Applications
Conference workshops, Izmir (Turkey), 2012-07-16 - 2012-07-20 },
  doi = { 10.1109/COMPSACW.2012.94 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236330 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752306 },
}

@phdthesis { Mic12,
  author = { Michailidis, Alexander A. },
  othercontributors = { Kowalewski, Stefan },
  title = { Konzepte f{"u}r eine virtuelle Integration von AUTOSAR-
konformer Fahrzeug-Software in fr{"u}hen Entwicklungsphasen },
  publisher = { Shaker },
  pages = { IX, 178 S. : Ill., graph. Darst. },
  series = { Berichte aus der Informatik },
  year = { 2012 },
  address = { Aachen },
  isbn = { 978-3-8440-0761-9 },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-125655 },
  cin = { 100000 / 122810 / 120000 },
}
```

```
url = { http://publications.rwth-aachen.de/record/64327 },
}

@inproceedings { MHR+08,
  author = { Michailidis, Alexander A. and Hedenetz, Bernd and Ringler,
Thomas and Kowalewski, Stefan },
  title = { Virtuelle Integration von vernetzten Funktionen in fr{"u}hen
Entwicklungsphasen },
  booktitle = { Moderne Elektronik im Kraftfahrzeug III : Systeme von
morgen - technische Innovationen und Entwicklungstrends ; [28. Tagung
'Elektronik im Kraftfahrzeug' vom Haus der Technik Essen e.V. in M{"u}nchen
(i.e. Dresden!)] / Bernard B{"a}ker (Hrsg.) u. 46 Mitautoren },
  publisher = { Expert-Verl. },
  pages = { 151-167 },
  series = { Haus der Technik Fachbuch },
  year = { 2008 },
  address = { Renningen },
  organization = { 28. Tagung 'Elektronik im Kraftfahrzeug', M{"u}nchen
(Germany) },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-189181 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/117851 },
}

@inproceedings { MSH+10,
  author = { Michailidis, Alexander A. and Spieth, Uwe and Hedenetz,
Bernd and Ringler, Thomas and Kowalewski, Stefan },
  title = { Test Front Loading in Early Stages of Automotive Software
Development Based on AUTOSAR },
  booktitle = { 2010 Design, Automation & Test in Europe Conference &
Exhibition : DATE 2010 ; Dresden, Germany, 8 - 12 March 2010 / [European
Design and Automation Association]. - 1 },
  publisher = { IEEE },
  pages = { 435-440 },
  year = { 2010 },
  address = { Piscataway, NJ },
  organization = { 2010 Design, Automation & Test in Europe Conference &
Exhibition, Dresden (Germany), 2010-03-08 - 2010-03-12 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-189182 },
  cin = { 122810 / 120000 },
  url = { http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5457166
},
}

@article { MRH+10,
  author = { Michailidis, Alexander A. and Ringler, Thomas and Hedenetz,
Bernd and Kowalewski, Stefan },
  title = { Virtuelle Integration modellbasierter Fahrzeugfunktionen
unter AUTOSAR },
```

```
journal = { ATZ-Elektronik },
publisher = { Vieweg },
pages = { 32-37 },
volume = { 1 },
year = { 2010 },
address = { Wiesbaden },
issn = { 1862-1791 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-043239 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/165385 },
}

@inproceedings { MWK+09,
  author = { Mitsching, Ralf and Weise, Carsten and Kolbe, André and
Bohnenkamp, Henrik and Berzen, Norbert },
  title = { Towards an industrial strength process for timed testing },
  booktitle = { International Conference on Software Testing,
Verification and Validation Workshops, 2009: ICSTW '09 : April 1, 2009,
Denver, Colorado, USA },
  publisher = { IEEE },
  pages = { 29-38 },
  year = { 2009 },
  address = { Piscataway, NJ },
  organization = { International Conference on Software Testing,
Verification and Validation Workshops 2009, Denver (USA), 2009-04-01 },
  doi = { 10.1109/ICSTW.2009.42 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172513 },
  cin = { 122810 / 121310 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99554 },
}

@techreport { Mit09,
  author = { Mitsching, Ralf },
  title = { Testing in the Industrial Development Process for Embedded
Systems },
  booktitle = { Doctoral Symposium on Systems Software Verification (DS
SSV'09) Real Software, Real Problems, Real Solutions ; Proceedings },
  publisher = { RWTH Aachen, Department of Computer Science },
  pages = { 23-25 },
  volume = { 2009,14 },
  number = { AIB-2009-14 },
  series = { Aachener Informatik-Berichte : AIB },
  year = { 2009 },
  address = { Aachen },
  organization = { Doctoral Symposium on Systems Software Verification
(DS SSV'09) Real Software },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-009584 },
  cin = { 122810 / 120000 },
```

```
url = { http://aib.informatik.rwth-aachen.de/2009/2009-14.pdf },
}

@inproceedings { MWG+10,
  author = { Mitsching, Ralf and Weise, Carsten and Gatterdam, Thomas and
Kowalewski, Stefan },
  title = { Low Effort Evaluation of Real-Time and Reliability
Requirements },
  booktitle = { 2010 IEEE 10th International Conference on Computer and
Information Technology (CIT 2010) : Bradford, United Kingdom, 29 June - 1
July 2010 ; [in conjunction with the 7th IEEE International Conference on
Embedded Software and Systems (ICESS 2010) and the 10th IEEE International
Conference on Scalable Computing and Communications (ScalCom 2010) ;
proceedings ; including their workshops/symposia] / [sponsored by the
University of Bradford; IEEE; IEEE Computer Society; IEEE TCSC ...] },
  publisher = { IEEE Computer Society },
  pages = { 2433-2440 },
  year = { 2010 },
  organization = { 2010 IEEE 10th International Conference on Computer
and Information Technology, Bath (UK), 2010-06-29 - 2010-07-01 },
  doi = { 10.1109/CIT.2010.418 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-190154 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/118981 },
}

@inproceedings { MWK10,
  author = { Mitsching, Ralf and Weise, Carsten and Kowalewski, Stefan },
  title = { Design Patterns for Integrating Variability in Timed Automata
},
  booktitle = { Proceedings / 2010 Fourth International Conference on
Secure Software Integration and Reliability Improvement : SSIRI 2010 ; 9-11
June 2010, Singapore, Singapore / IEEE },
  publisher = { IEEE },
  pages = { 38-45 },
  year = { 2010 },
  address = { Piscataway, NJ },
  organization = { / 2010 Fourth International Conference on Secure
Software Integration and Reliability Improvement, Singapore (Singapore),
2010-06-09 - 2010-06-11 },
  doi = { 10.1109/SSIRI-C.2010.21 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-190358 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/119199 },
}

@inproceedings { MK06,
  author = { Mitsching, Ralf and Kowalewski, Stefan },
  title = { Coping with the Variability of Hybrid Models for Automotive
```

```
Software },
  booktitle = { Proceedings / HYCON & CEmACS Workshop on Automotive
Systems and Control, Lund, June 1 2, 2006 },
  publisher = { University Lund, Dept. Automatic Control },
  pages = { 31-38 },
  year = { 2006 },
  organization = { HYCON & CEmACS Workshop on Automotive Systems and
Control, Lund (Sweden) },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-191092 },
  cin = { 122810 / 120000 },
  url = { http://www.ist-hycon.org/deliverables/HYCON-D4c42.pdf },
}

@inproceedings { MWF+11,
  author = { Mitsching, Ralf and Weise, Carsten and Franke, Dominik and
Gerlitz, Thomas and Kowalewski, Stefan },
  title = { Coping with Complexity of Testing Models for Real-Time
Embedded Systems },
  booktitle = { 2011 Fifth International Conference on Secure Software
Integration and Reliability Improvement – Companion : SSIRI-C 2011 ; 27-29
June 2011, Jeju Island, Korea },
  publisher = { IEEE },
  pages = { 128-135 },
  year = { 2011 },
  address = { Los Alamitos },
  organization = { 2011 Fifth International Conference on Secure Software
Integration and Reliability Improvement – Companion, Jeju Island (South
Korea), 2011-06-27 - 2011-06-29 },
  doi = { 10.1109/SSIRI-C.2011.27 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-194620 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/123848 },
}

@inproceedings { MWB+11,
  author = { Mitsching, Ralf and Weise, Carsten and Bohnenkamp, Henrik
and Fiedler, Frank and Kowalewski, Stefan },
  title = { TripleT: Improving Test Responsiveness for High Performance
Embedded Systems },
  booktitle = { 2011 IEEE Fourth International Conference on Software
Testing, Verification and Validation workshops (ICSTW 2011) : Berlin,
Germany, 21 - 25 March 2011 ; [proceedings] / [sponsored by IEEE Computer
Society] },
  publisher = { IEEE },
  pages = { 67-74 },
  year = { 2011 },
  address = { Piscataway, NJ },
  organization = { 2011 IEEE Fourth International Conference on Software
Testing, Verification and Validation workshops (ICSTW 2011), Berlin, Germany
```

```
(Germany), 2011-03-21 - 2011-03-25 },
  doi = { 10.1109/ICSTW.2011.86 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196906 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/126597 },
}
```

```
@phdthesis { Mit12,
  author = { Mitsching, Ralf },
  othercontributors = { Kowalewski, Stefan },
  title = { Applied timed testing: Testautomatisierung in industriellen
Testprozessen von eingebetteten Systemen },
  pages = { 108 S. . Ill., graph. Darst. },
  year = { 2012 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-143663 },
  cin = { 100000 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/210819 },
}
```

```
@inproceedings { MKJ+23,
  author = { Mohan Prabhu, Vinod and Kessler, V. and Jentges, Marco and
Kowalewski, Stefan },
  title = { SafMiddleware: A configurable middleware forfuture safety-
critical vehicle applications },
  booktitle = { Tagungsband : Embedded Software Engineering Kongress
2023, 4. bis 8. Dezember ; Preconference 1. Dezember 2023 },
  publisher = { Vogel Communications Group },
  pages = { 399-412 },
  year = { 2023 },
  address = { W{"u"}rzburg },
  organization = { Embedded Software Engineering Kongress 2023 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2024-01599 },
  cin = { 122810 / 120000 },
  url = {
https://content-select.com/media/moz_viewer/65c36075-621c-46d0-8ed3-4cb8ac1b
000f/language:de },
}
```

```
@inproceedings { MKK+23,
  author = { Mohan Prabhu, Vinod and Kowalewski, Stefan and Kessler, G.
and Jentges, Marco },
  title = { Automotive Safety Software Architecture: A Fault-Tolerant
Safety-Critical Software Architecture for Modern Vehicles },
  booktitle = { [32nd Aachen Colloquium Sustainable Mobility 2023] },
  year = { 2023 },
  organization = { 32. Aachen Colloquium Sustainable Mobility 2023 },
  typ = { PUB:(DE-HGF)8 },
```

```
    reportid = { RWTH-2024-01600 },
    cin = { 122810 / 120000 },
    url = {
https://www.aachener-kolloquium.de/images/tagungsunterlagen/2023_32._ACK/D4.
3_Vinod_Mohan_Prabhu_RWTH%20Aachen.pdf },
}

@inproceedings { MKV+21,
    author = { Mohan Prabhu, Vinod and Kowalewski, Stefan and
Vadakkepattath, J. and Jentges, Marco },
    title = { A lean safety-critical software development process for
future vehicle applications Software },
    booktitle = { [42nd International Vienna Motor Symposium 2021] },
    year = { 2021 },
    organization = { 42. International Vienna Motor Symposium 2021 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-2024-01601 },
    cin = { 122810 / 120000 },
}

@inproceedings { MKK+20,
    author = { Mohan Prabhu, Vinod and Kowalewski, Stefan and Kessler, G.
and Jentges, Marco },
    title = { An Automotive Safety Software Architecture for Future Vehicle
Applications. },
    booktitle = { [Embedded Software Engineering Kongress 2020] },
    year = { 2020 },
    organization = { Embedded Software Engineering Kongress 2020 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-2024-01602 },
    cin = { 122810 / 120000 },
}

@inproceedings { MKA+20,
    author = { Mokhtarian, Armin and Kampmann, Alexandru and Alrifae,
Bassam and Kowalewski, Stefan and Lampe, Bastian and Eckstein, Lutz },
    title = { Agile Requirement Engineering for a Cloud System for
Automated and Networked Vehicles },
    booktitle = { 2nd International Workshop on Autonomous Systems Design :
ASD 2020, March 13, 2020, Grenoble, France, converted to a virtual event due
to COVID-19, held in April 2020 / edited by Sebastian Steinhorst, Jyotirmoy
V. Deshmukh },
    publisher = { Schloss Dagstuhl - Leibniz-Zentrum f{"u"}r Informatik
GmbH, Dagstuhl Publishing, August },
    pages = { 4:1-4:8 },
    series = { OpenAccess Series in Informatics },
    year = { 2020 },
    address = { Saarbr{"u"}cken/Wadern, Germany },
    organization = { 2. International Workshop on Autonomous Systems
Design, Grenoble (France), 2020-03-12 - 2020-03-13 },
    doi = { 10.4230/OASICS.ASD.2020.4 },
```

```
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2020-08417 },
    cin = { 122810 / 120000 / 414110 },
}

@inproceedings { MKA+20a,
    author = { Mokhtarian, Armin and Kampmann, Alexandru and Alrifaae,
Bassam and Kowalewski, Stefan },
    title = { The Dynamic Service-oriented Software Architecture for the
UNICARagil Project },
    booktitle = { 29. Aachen Colloquium Sustainable Mobility : October
5th-7th, 2020, digital event / scientific management: Univ.-Prof. Dr.-Ing.
Lutz Eckstein, Univ.-Prof. Dr.-Ing. Stefan Pischinger ; organizational
management: Michaela Wacker (M. Sc.), Jonas M{"u"}ller (M. Sc.) ; organized
by: Institute for Automotive Engineering, RWTH Aachen University; Institute
for Combustion Engines, RWTH Aachen University. - 1: October 6th, 2020 },
    publisher = { Institute for Automotive Engineering, RWTH Aachen
University ; Aachen : Institute for Combustion Engines, RWTH Aachen
University },
    pages = { 275-284 },
    year = { 2020 },
    address = { Aachen },
    organization = { 29. Aachen Colloquium Sustainable Mobility = 29.
Aachener Kolloquium Fahrzeug- und Motorentechnik, Aachen (Germany),
2020-10-05 - 2020-10-07 },
    doi = { 10.18154/RWTH-2020-11256 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2020-11256 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/807282/files/807282.pdf },
}

@article { MKL+21,
    author = { Mokhtarian, Armin and Kampmann, Alexandru and L{"u"}er,
Maximilian and Kowalewski, Stefan and Alrifaae, Bassam },
    title = { A Cloud Architecture for Networked and Autonomous Vehicles },
    journal = { IFAC-PapersOnLine },
    publisher = { Elsevier },
    pages = { 233-239 },
    volume = { 54 },
    number = { 2 },
    year = { 2021 },
    address = { Frankfurt },
    issn = { 2405-8963 },
    organization = { 16. IFAC Symposium on Control in Transportation
Systems, online, 2021-06-08 - 2021-06-10 },
    doi = { 10.1016/j.ifacol.2021.06.028 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2021-09294 },
    cin = { 122810 / 120000 },
}
```

```
url = {
http://publications.rwth-aachen.de/record/828696/files/828696.pdf },
}

@inproceedings { MA22,
  author = { Mokhtarian, Armin and Alrifaae, Bassam },
  title = { CPM Remote: A Remote Access to the CPM Lab },
  booktitle = { 8th-2022 International Conference on Control, Decision
and Information Technologies (CoDIT\`22) : May 17-20, 2022, Istanbul, Turkey
/ CoDIT 2022 ; IFAC - International Federation of Automation Control, IEEE,
İzmir Ekonomi {"U}niversitesi, LISIER, IEEE SMC - System, Man, and
Cybernetics Society, IEEE Control Systems Society, CNRS GDR - Groupement de
recherche, RO - Recherche opérationelle ; honorary chairs: Okyay Kaynak
(Bogazici University, Turkey), Mengchu Zhou (New Jersey Institute of
Technology, USA) ; publication co-chairs: Mariagrazia Dotoli (Polytechnic
University of Bari, Italy), Nicholas Karampetakis (Aristotle University of
Thessaloniki, Greece), Kamal Medjaher (École nationale d'ingénieurs de
Tarbes, France) },
  publisher = { IEEE },
  pages = { 1124-1129 },
  year = { 2022 },
  address = { [Piscataway, NJ] },
  organization = { 8. International Conference on Control, Decision and
Information Technologies, Istanbul (Turkey), 2022-05-17 - 2022-05-20 },
  doi = { 10.1109/CoDIT55151.2022.9804088 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2022-08485 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/852942/files/852942.pdf },
}

@inproceedings { MSA22,
  author = { Mokhtarian, Armin and Sch{"a}fer, Simon and Alrifaae,
Bassam },
  title = { CPM Olympics: Development of Scenarios for Benchmarking in
Networked and Autonomous Driving },
  booktitle = { 2022 IEEE Intelligent Vehicles Symposium (IV) : 4-9 June
2022 / publisher: IEEE },
  publisher = { IEEE },
  pages = { 9-15 },
  year = { 2022 },
  address = { Piscataway, NJ },
  organization = { 33. IEEE Intelligent Vehicles Symposium, Aachen
(Germany), 2022-06-04 - 2022-06-09 },
  doi = { 10.1109/IV51971.2022.9827299 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2022-08486 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/852943/files/852943.pdf },
}
```

```

}

@article { MSK+22,
  author = { Mokhtarian, Armin and Scheffe, Patrick and Kowalewski,
Stefan and Alrifaae, Bassam },
  title = { Remote Teaching with the Cyber-Physical Mobility Lab },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  pages = { 386-391 },
  volume = { 55 },
  number = { 17 },
  year = { 2022 },
  address = { Frankfurt ; M{"u"}nchen [u.a.] },
  issn = { 1474-6670 },
  organization = { 13.IFAC Symposium on Advances in Control Education,
Hamburg (Germany), 2022-07-24 - 2022-07-27 },
  doi = { 10.1016/j.ifacol.2022.09.310 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2022-10406 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/855749/files/855749.pdf },
}

@inproceedings { MHA24,
  author = { Mokhtarian, Armin and Hegerath, Lucas and Alrifaae, Bassam
},
  title = { CPM Academy: A Remote Platform for Teaching Current Topics in
Connected and Automated Vehicles },
  booktitle = { 2023 62nd IEEE Conference on Decision and Control (CDC) :
13-15 Dec. 2023 },
  publisher = { IEEE },
  year = { 2024 },
  organization = { 62. IEEE Conference on Decision and Control, Singapore
(Singapore), 2023-12-13 - 2023-12-15 },
  doi = { 10.1109/CDC49753.2023.10384102 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2024-00727 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/977464/files/977464.pdf },
}

@article { MSV+22,
  author = { Mro{"ss"}, Robin and Schnakenbeck, Aron and V{"o"}lker,
Marcus and Fay, Alexander and Kowalewski, Stefan },
  title = { Transformation of GRAFCET Into GAL for Verification Purposes
Based on a Detailed Meta-Model },
  journal = { IEEE access },
  publisher = { IEEE },
  pages = { 125652-125665 },

```

```
volume = { 10 },
year = { 2022 },
address = { New York, NY },
issn = { 2169-3536 },
doi = { 10.1109/ACCESS.2022.3225736 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2023-00543 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/862557/files/862557.pdf },
}

@inproceedings { MSV+23,
  author = { Mro{\ss}, Robin and Schnakenbeck, Aron and V{"o}lker,
  Marcus and Fay, Alexander and Kowalewski, Stefan },
  title = { GRAFCET Reduction Techniques for Model Checking },
  booktitle = { 2023 IEEE 21st International Conference on Industrial
  Informatics (INDIN) : 18-20 July 2023 / publisher: IEEE },
  publisher = { IEEE },
  pages = { 6 Seiten },
  year = { 2023 },
  address = { [Piscataway, NJ] },
  organization = { IEEE 21. International Conference on Industrial
  Informatics, Lemgo (Germany), 2023-07-18 - 2023-07-20 },
  doi = { 10.1109/INDIN51400.2023.10218247 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2023-09981 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/972068/files/972068.pdf },
  illkey = { DFG project 445866207 - Analyse von GRAFCET-Spezifikationen
  zur Erkennung von Entwurfsfehlern (445866207) },
}

@inproceedings { MSV+23a,
  author = { Mro{\ss}, Robin and Schnakenbeck, Aron and V{"o}lker,
  Marcus and Fay, Alexander and Kowalewski, Stefan },
  title = { Unambiguous Interpretation of IEC 60848 GRAFCET based on a
  Literature Review },
  booktitle = { [IEEE 28. International Conference on Emerging
  Technologies and Factory Automation, ETFA, 2023-09-12 - 2023-09-15, Sinaia,
  Romania] },
  publisher = { IEEE },
  year = { 2023 },
  organization = { IEEE 28. International Conference on Emerging
  Technologies and Factory Automation, Sinaia (Romania), 2023-09-12 -
  2023-09-15 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2023-09989 },
  cin = { 122810 / 120000 },
  url = {
```

```
http://publications.rwth-aachen.de/record/972077/files/972077.pdf },
  illkey = { DFG project 445866207 - Analyse von GRAFCET-Spezifikationen
zur Erkennung von Entwurfsfehlern (445866207) },
}

@inproceedings { MHL+12,
  author = { Murillo, Luis Gabriel and Harnath, Julian and Leupers,
Rainer and Ascheid, Gerd },
  title = { Scalable and Retargetable Debugger Architecture for
Heterogeneous MPSoCs },
  booktitle = { System, Software, SoC and Silicon Debug Conference (S4D),
[Vienna, Austria, 19-20 Sept. 2012] },
  publisher = { IEEE },
  pages = { 45-50 },
  year = { 2012 },
  address = { [Piscataway, NJ] },
  organization = { System, Software, SoC and Silicon Debug Conference,
Vienna (Austria), 2012-09-19 - 2012-09-20 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-200673 },
  cin = { 122810 / 611910 / 120000 },
  url = { http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6338153 },
}

@inproceedings { MEJ+12,
  author = { Murillo, Luis Gabriel and Eusse, Juan Fernando and Jovic,
Jovana and Yakoushkin, Sergey and Leupers, Rainer and Ascheid, Gerd },
  title = { Synchronization for Hybrid MPSoC Full-System Simulation },
  booktitle = { 2012 49th ACM/EDAC/IEEE Design Automation Conference (DAC
2012) : San Francisco, California, USA, 3 - 7 June 2012. - Vol. 1 },
  publisher = { IEEE },
  pages = { 121-126 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { 49. ACM/EDAC/IEEE Design Automation Conference, San
Francisco, CA (USA), 2012-06-03 - 2012-06-07 },
  doi = { 10.1145/2228360.2228383 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-200852 },
  cin = { 122810 / 611910 / 080004 / 120000 },
  url = { http://publications.rwth-aachen.de/record/207392 },
}

@article { NHM13,
  author = { Neugebauer, Johannes and Hanrath, Michael and Mitric, Roland
},
  title = { Theoretische Chemie 2012 },
  journal = { Nachrichten aus der Chemie },
  publisher = { de Gruyter [u.a.] },
  pages = { 320-329 },
  volume = { 61 },
```

```
number = { 3 },
year = { 2013 },
address = { Berlin },
issn = { 0341-5163 },
doi = { 10.1002/nadc.201390090 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-086856 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/238164 },
}

@inbook { NS08,
  author = { Noll, Thomas and Schlich, Bastian },
  title = { Delayed nondeterminism in model checking embedded systems
assembly code },
  booktitle = { Hardware and software: verification and testing : third
International Haifa Verification Conference, HVC 2007, Haifa, Israel,
October 23 - 25, 2007 ; proceedings / Karen Yorav (ed.) },
  publisher = { Springer },
  pages = { 185-201 },
  volume = { 4899 },
  series = { Lecture notes in computer science },
  year = { 2008 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-540-77966-7_16 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-095397 },
  cin = { 120000 / 122810 / 121310 },
  url = { http://publications.rwth-aachen.de/record/83461 },
}

@inproceedings { NKM+17,
  author = { Nowack, Jan and Kugler, Christopher and Maquet, Ralf and
Richenhagen, Johannes Martin and Remelhe, Filipe },
  title = { Continuous process for the validation of transmission
controls },
  year = { 2017 },
  organization = { 16. CTI Symposium },
  typ = { PUB:(DE-HGF)1 },
  reportid = { RWTH-CONV-236303 },
  url = {
https://drivetrain-symposium.world/cn/continuous-process-validation-transmis
sion-controls/ },
}

@inproceedings { OKK14,
  author = { Obster, Mathias and Kalkov, Igor and Kowalewski, Stefan },
  title = { Development and Execution of PLC Programs on Real-Time
Capable Mobile Devices },
  booktitle = { 2014 IEEE [International Conference on] Emerging
Technologies and Factory Automation (ETFA 2014) : Barcelona, Spain, 16 - 19
```

September 2014 / [co-sponsored by Universitat Politècnica de Catalunya - Barcelona Tech (UPC); IEEE Industrial Electronics Society] },

publisher = { IEEE },

pages = { 8 Seiten },

year = { 2014 },

address = { Piscataway, NJ },

organization = { 2014 IEEE [International Conference on] Emerging Technologies and Factory Automation, Barcelona (Spain), 2014-09-16 - 2014-09-19 },

doi = { 10.1109/ETFA.2014.7005218 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-CONV-206433 },

cin = { 120000 / 122810 },

url = { <http://publications.rwth-aachen.de/record/444615> },

}

@inproceedings { OK17,

author = { Obster, Mathias and Kowalewski, Stefan },

title = { A live static code analysis architecture for PLC software },

booktitle = { 2017 22nd IEEE International Conference on Emerging Technologies and Factory Automation : September 12-15, 2017, Limassol, Cyprus / ABB, IEEE, IES, University of Cyprus },

publisher = { IEEE },

pages = { 4 Seiten },

year = { 2017 },

address = { Piscataway, NJ },

organization = { 22. IEEE International Conference on Emerging Technologies and Factory Automation, Limassol (Cyprus), 2017-09-12 - 2017-09-15 },

doi = { 10.1109/ETFA.2017.8247707 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-2018-223453 },

cin = { 122810 / 120000 },

url = { <http://publications.rwth-aachen.de/record/722219> },

}

@phdthesis { Obs20,

author = { Obster, Mathias },

othercontributors = { Kowalewski, Stefan and Frey, Georg },

title = { Unterst\{"u\}tzung der SPS-Programmierung durch statische Analyse w\{"a\}hrend der Programmeingabe },

publisher = { RWTH Aachen University },

school = { RWTH Aachen University },

pages = { 1 Online-Ressource (xi, 118 Seiten) : Illustrationen },

series = { Aachener Informatik-Berichte },

year = { 2020 },

address = { Aachen },

doi = { 10.18154/RWTH-2021-01742 },

typ = { PUB:(DE-HGF)11 },

reportid = { RWTH-2021-01742 },

cin = { 122810 / 120000 },

```

    url = {
http://publications.rwth-aachen.de/record/812214/files/812214.pdf },
}

@inproceedings { OBY11,
    author = { Oh, Hakjoo and Brutschy, Lucas and Yi, Kwangkeun },
    title = { Access Analysis-based Tight Localization of Abstract Memories
},
    booktitle = { Verification, model checking, and abstract interpretation
: 12th international conference, VMCAI 2011, Austin, TX, USA, January 23-25,
2011 ; proceedings / Ranjit Jhala; David Schmidt (eds.) },
    publisher = { Springer },
    pages = { 356-370 },
    series = { Lecture notes in computer science },
    year = { 2011 },
    address = { Heidelberg [u.a.] },
    organization = { Verification, model checking, and abstract
interpretation : 12th international conference, Austin, TX (USA), 2011-01-23
- 2011-01-25 },
    doi = { 10.1007/978-3-642-18275-4_25 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-197962 },
    cin = { 122810 / 121310 / 120000 },
    url = { http://publications.rwth-aachen.de/record/127762 },
}

@inproceedings { OBS+22,
    author = { Olivier, Lena and Buglowski, Mateusz and Sabine, Becker and
H{"u"}tten, Matthias and Olikowsky, Thorsten and Stollenwerk, Andr{e} and
Schoberer, Mark },
    title = { Work in progress: Detektion einer intensivierten invasiven
Beatmung bei Neonaten mithilfe eines Fuzzylogik-Modells },
    booktitle = { Abstracts 48. Jahrestagung der Gesellschaft f{"u"}r
Neonatologie und P{"a"}diatrische Intensivmedizin / Gesellschaft f{"u"}r
Neonatologie und P{"a"}diatrische Intensivmedizin e. V. },
    publisher = { Conventus Congressmanagement & Marketing GmbH },
    pages = { 93 },
    year = { 2022 },
    address = { Jena },
    organization = { 48. Jahrestagung der Gesellschaft f{"u"}r Neonatologie
und P{"a"}diatrische Intensivmedizin / Gesellschaft f{"u"}r Neonatologie und
P{"a"}diatrische Intensivmedizin e. V. },
    typ = { PUB:(DE-HGF)1 },
    reportid = { RWTH-2024-02442 },
    cin = { 122810537500-5 ; 537500-2 ; 933410 / 120000 },
    url = {
http://nbn-resolving.org/urn:nbn:de:101:1-2022050914325390522965 },
    illkey = { BMBF 13GW0292C - Innovatives Neonatologiebeatmungsger{"a"}t
mit adaptiver Anwenderunterst{"u"}tzung (NANNI) - Teilvorhaben: Erforschung
neuer Modelle zur Diagnose von Fehlerzust{"a"}nden (BMBF-13GW0292C) },
}

```

```
@inproceedings { PK09,  
  author = { Palczynski, Jacob and Kowalewski, Stefan },  
  title = { Early Behaviour Modelling for Control Systems },  
  booktitle = { 2009 Third UKSim European Symposium on Computer Modeling  
and Simulation : EMS 2009 ; Athens, Greece, 25 - 27 November 2009 /  
[technical sponsors: IEEE United Kingdom and Republic of Ireland] Section ... },  
  publisher = { IEEE },  
  pages = { 148-153 },  
  year = { 2009 },  
  address = { Piscataway, NJ },  
  organization = { 3. UKSim European Symposium on Computer Modeling and  
Simulation, Athen (Greece), 2009-11-25 - 2009-11-27 },  
  doi = { 10.1109/EMS.2009.69 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-171883 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/98844 },  
}  
  
@inproceedings { PSK06,  
  author = { Palczynski, Jacob and Schlich, Bastian and Kowalewski,  
Stefan },  
  title = { Eine Evaluationssuite zur schnellen Bewertung von  
Matlab/Simulink-Modelcheckern },  
  booktitle = { Informatik 2006 : Informatik f{"u"}r Menschen ;  
Beitr{"a"}ge der 36. Jahrestagung der Gesellschaft f{"u"}r Informatik e.V.  
(GI) ; 2. bis 6. Oktober 2006 in Dresden / Christian Hochberger ... (Hrsg.).  
- T. 1. - 1 },  
  publisher = { Ges. f{"u"}r Informatik },  
  pages = { 751-755 },  
  series = { GI-Edition : Proceedings },  
  year = { 2006 },  
  address = { Bonn },  
  organization = { 36. Jahrestagung der Gesellschaft f{"u"}r Informatik  
e.V., Dresden (Germany), 2006-10-02 - 2006-10-06 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-183701 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/111754 },  
}  
  
@inproceedings { PWM+11,  
  author = { Palczynski, Jacob and Weise, Carsten and Moj, Sebastian and  
Kowalewski, Stefan },  
  title = { Comparing Continuous Behaviour in Model-based Development of  
Embedded Software },  
  booktitle = { Tagungsband / Dagstuhl-Workshop MBEES (MBEES 2011):  
Modellbasierte Entwicklung eingebetteter Systeme VII : model-based  
development of embedded systems ; 16.02.2011 - 18.02.2011 / Holger Giese ...  
},
```

```
publisher = { fortiss },
pages = { 61-70 },
year = { 2011 },
address = { M{"u"}nchen },
organization = { Tagungsband / Dagstuhl-Workshop MBEES (MBEES 2011):
Modellbasierte Entwicklung eingebetteter Systeme VII : model-based
development of embedded systems, 2011-02-16 - 2011-02-18 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-196792 },
cin = { 122810 / 120000 },
url = {
http://www.in.tu-clausthal.de/fileadmin/homes/GI/Documents/MBEES2011_Gesamt_
final_web.pdf },
}

@inproceedings { PWK10,
author = { Palczynski, Jacob and Weise, Carsten and Kowalewski, Stefan
},
title = { Testing Continuous Systems Conformance Using Cross
Correlation },
booktitle = { Proceedings of the 22nd IFIP International Conference on
Testing Software and Systems: Short Papers ; October, 2010 / Eds.: Alexandre
Petrenko ... },
publisher = { CRIM },
pages = { 31-36 },
series = { CRIM : Documentation/Communications },
year = { 2010 },
address = { Montreal },
organization = { 22. IFIP International Conference on Testing Software
and Systems, 2010-10 - 2010-10 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-196796 },
cin = { 122810 / 120000 },
url = {
http://www.crim.ca/Publications/2010/documents/plein_texte/ASD_PetA_al_20101
0_ICTSS_sp.pdf },
}

@inproceedings { PWK+11,
author = { Palczynski, Jacob and Weise, Carsten and Kowalewski, Stefan
and Ulmer, Daniel },
title = { Estimation of Clock Drift in HiL Testing by Property-Based
Conformance Check },
booktitle = { 2011 IEEE Fourth International Conference on Software
Testing, Verification and Validation workshops (ICSTW 2011) : Berlin,
Germany, 21 - 25 March 2011 ; [proceedings] / [sponsored by IEEE Computer
Society] },
publisher = { IEEE },
pages = { 590-595 },
year = { 2011 },
address = { Piscataway, NJ },
```

```

organization = { IEEE Fourth International Conference on Software
Testing, Verification and Validation workshops, Berlin (Germany), 2011-03-21
- 2011-03-25 },
doi = { 10.1109/ICSTW.2011.101 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-196810 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/126479 },
}

@phdthesis { Pal14,
author = { Palczynski, Jacob },
othercontributors = { Kowalewski, Stefan },
title = { Time continuous behaviour comparison based on abstract models
},
publisher = { Fachgruppe Informatik, RWTH Aachen University },
pages = { II-XI, 126 S. },
series = { Aachener Informatik-Berichte },
year = { 2014 },
address = { Aachen },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-CONV-144280 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/229310/files/4941.pdf
},
}

@article { PSA+23,
author = { Pedrosa, Matheus V. A. and Scheffe, Patrick and Alrifaae,
Bassam and Fla{\ss}kamp, Kathrin },
title = { Optimization-based motion primitive automata for autonomous
driving },
journal = { Automatisierungstechnik : AT },
publisher = { De Gruyter },
pages = { 294-300 },
volume = { 71 },
number = { 4 },
year = { 2023 },
address = { Berlin },
issn = { 2196-677X },
doi = { 10.1515/auto-2022-0158 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2023-03780 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/955890 },
illkey = { DFG project 412371229 - GROKO-Plan: GRaphenbasierte,
Optimale und KOperative Trajektorienplanung f{"u}r Interagierende
Automobile (412371229) },
}

@inproceedings { PSK24,

```

```
author = { Pfannschmidt, Valerie and Stollenwerk, André and Kowalewski,
Stefan },
title = { Physiologische Regelung der k{"u"}nstlichen Beatmung
Fr{"u"}hgeborener },
booktitle = { Downloads zum 58. Regelungstechnischen Kolloquium vom 21.
bis 23. Februar 2024: Kurzfassungen der Votr{"a"}ge },
year = { 2024 },
organization = { 58. Regelungstechnisches Kolloquium, Boppard (Germany)
},
typ = { PUB:(DE-HGF)1 },
reportid = { RWTH-2024-02444 },
cin = { 122810 / 120000 },
url = {
https://www.iosb.fraunhofer.de/de/veranstaltungen/regelungstechnisches-kolloquium-boppard.html },
}
```

```
@techreport { PBD+10,
author = { Pleuss, A. and Botterweck, G. and Dhungana, D. and Polzer,
A. and Kowalewski, Stefan },
title = { Featureoriented modelling of product line evolution },
pages = { 25 Seiten },
year = { 2010 },
typ = { PUB:(DE-HGF)29 },
reportid = { RWTH-CONV-236309 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752286 },
}
```

```
@article { PBD+12,
author = { Pleuss, Andreas and Botterweck, G{"o"}tz and Dhungana,
Deepak and Polzer, Andreas and Kowalewski, Stefan },
title = { Model-driven support for product line evolution on feature
level },
journal = { The journal of systems and software : JSS },
publisher = { Elsevier [u.a.] },
pages = { 2261-2274 },
volume = { 85 },
number = { 10 },
year = { 2012 },
address = { Amsterdam },
issn = { 0164-1212 },
doi = { 10.1016/j.jss.2011.08.008 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-074140 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/211937 },
}
```

```
@inproceedings { PBW+09,
author = { Polzer, Andreas and Botterweck, G{"o"}tz and Wagnerin, Iris
```

```
and Kowalewski, Stefan },
  title = { Variabilit{\a}t im modellbasierten Engineering von
eingebetteten Systemen },
  booktitle = { Informatik 2009 : im Focus das Leben ; Beitr{\a}ge der
39. Jahrestagung der Gesellschaft f{\u}r Informatik e.V. (GI), 28.9. -
2.10.2009 in L{\u}beck / Stefan Fischer ... (Hrsg.) },
  publisher = { Ges. f{\u}r Informatik },
  pages = { 331-331 },
  series = { GI-Edition : Proceedings },
  year = { 2009 },
  address = { L{\u}beck, Germany },
  organization = { 39. Jahrestagung der Gesellschaft f{\u}r Informatik
e.V. (GI), L{\u}beck (Germany), 2009-09-28 - 2009-10-02 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172392 },
  cin = { 120000 / 122810 },
  url = { http://subs.emis.de/LNI/Proceedings/Proceedings154/P-154.pdf },
}
```

```
@inproceedings { PKB09,
  author = { Polzer, Andreas and Kowalewski, Stefan and Botterweck,
G{\o}tz },
  title = { Applying software product line techniques in model-based
embedded systems engineering },
  booktitle = { 2009 ICSE Workshop on Model-Based Methodologies for
Pervasive and Embedded Software : (MOMPES 2009) ; May 16, 2009, Vancouver,
Canada ; in conjunction with the 2009 IEEE 31st International Conference on
Software Engineering (ICSE 2009); May 16-24, 2009 },
  publisher = { IEEE },
  pages = { 2-10 },
  year = { 2009 },
  address = { Piscataway, NJ },
  doi = { 10.1109/MOMPES.2009.5069132 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172393 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/99427 },
}
```

```
@inproceedings { PMT+10,
  author = { Polzer, Andreas and Merschen, Daniel and Thomas, Jacques and
Hedenetz, Bernd and Kowalewski, Stefan },
  title = { View-Supported Rollout and Evolution of Model-Based ECU
Applications },
  booktitle = { 7th International Workshop on Model-based Methodologies
for Pervasive },
  publisher = { ACM },
  pages = { 37-44 },
  year = { 2010 },
  address = { New York, NY },
  organization = { 7. International Workshop on Model-based Methodologies
```

```
for Pervasive },
  doi = { 10.1145/1865875.1865881 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-190350 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/119190 },
}

@article { PMB+11,
  author = { Polzer, Andreas and Merschen, Daniel and Botterweck,
G{"o"}tz and Pleuss, Andreas and Thomas, Jacques and Hedenetz, Bernd and
Kowalewski, Stefan },
  title = { Managing Complexity and Variability of a Model-based Embedded
Software Product Line },
  journal = { Innovations in systems and software engineering },
  publisher = { Springer },
  pages = { 1-15 },
  volume = { 2011 },
  year = { 2011 },
  address = { London },
  issn = { 1614-5054 },
  doi = { 10.1007/s11334-011-0174-z },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-066950 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/191115 },
}

@phdthesis { Pol15,
  author = { Polzer, Andreas },
  othercontributors = { Kowalewski, Stefan and Lichter, Horst },
  title = { Ansatz zur variantenreichen und modellbasierten Entwicklung
von eingebetteten Systemen unter Ber{"u"}cksichtigung regelungs- und
softwaretechnischer Anforderungen },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  school = { Zugl.: Aachen, Techn. Hochsch. },
  series = { Aachener Informatik-Berichte },
  year = { 2015 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-2015-06778 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/561326/files/561326.pdf },
}

@article { PMS+13,
  author = { Pomprapa, Anake and Misgeld, Berno and Sorgato, Veronica and
Stollenwerk, Andr{e} and Walter, Marian and Leonhardt, Steffen },
  title = { Robust Control of End-Tidal CO2 using the H $\infty$  Loop-Shaping
Approach },
```

```

journal = { Acta polytechnica = Journal of advanced engineering },
publisher = { Univ. },
pages = { 895-900 },
volume = { 53 },
year = { 2013 },
address = { Prague },
issn = { 1210-2709 },
doi = { 10.14311/AP.2013.53.0895 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-080795 },
cin = { 120000 / 122810 },
url = {
http://publications.rwth-aachen.de/record/231825/files/231825.pdf },
}

@phdthesis { Pom15,
author = { Pomprapa, Anake },
othercontributors = { Leonhardt, Steffen and Kowalewski, Stefan },
title = { Automatic control of artificial ventilation therapy },
publisher = { Shaker },
pages = { XXI, 188 S. : Ill., graph. Darst. },
series = { Aachener Beitr{"a"}ge zur Medizintechnik },
year = { 2015 },
address = { Aachen },
isbn = { 9783844036428 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-CONV-207497 },
cin = { 611010 / 080017 / 122810 / 120000 },
url = {
http://deposit.d-nb.de/cgi-bin/dokserv?id=5226018&prov=M&dok_var=1&dok_ext=h
tm },
}

@inproceedings { PAS+18,
author = { Pomprapa, Anake and Ahmed, Waqar and Stollenwerk, André and
Kowalewski, Stefan and Uguz, Durmus Umutcan and Leonhardt, Steffen },
title = { Arrhythmia Analysis in a Non-contact cECG Chair using
Convolutional Neural Network },
booktitle = { Proceedings of the 11th International Conference on
Bioelectromagnetism : 23-25 May 2018, Aachen, Germany / Organizing Committee
for ICBEM 2018 in Aachen: Prof. Steffen Leonhardt, RWTH Aachen University,
Germany, Prof. Jaakko Malmivuo, Technische Universit{"a"}t Berlin, Germany,
Dr. Marian Walter, RWTH Aachen University, Germany, Benjamin Hentze, RWTH
Aachen University, Germany Markus L{"u"}ken, RWTH Aachen University, Germany
; Scientific Committee for ICBEM 2018 in Aachen: Prof. Catherine
Disselhorst-Klug, RWTH Aachen University, Germany [und 27 weitere] },
pages = { 4 Seiten },
year = { 2018 },
address = { Aachen },
organization = { 11. International Conference on Bioelectromagnetism,
Aachen (Germany), 2018-05-23 - 2018-05-25 },

```

```
doi = { 10.18154/RWTH-CONV-224903 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-224903 },
cin = { 611010 / 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/723536/files/723536.pdf },
}

@inproceedings { PSA+18,
  author = { Pomprapa, Anake and Sayani, Mohammad Salman and Anwar, Toni
and Stollenwerk, André and Kowalewski, Stefan and von Platen, Philip Henning
and Leonhardt, Steffen },
  title = { Apnea Detection in a Contactless Multisensor System using
Deep Learning Algorithm },
  booktitle = { [13th Russian-German Conference on Biomedical Engineering
(RGC), RGC, 2018-05-23 - 2018-05-25, Aachen, Germany] },
  year = { 2018 },
  organization = { 13. Russian-German Conference on Biomedical
Engineering (RGC), Aachen (Germany), 2018-05-23 - 2018-05-25 },
  doi = { 10.18154/RWTH-CONV-224907 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-224907 },
  cin = { 611010 / 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/723540/files/723540.pdf },
}

@article { PAS+18a,
  author = { Pomprapa, Anake and Ahmed, W. and Sayani, M. S. and
Stollenwerk, André and Kowalewski, Stefan and Leonhardt, Steffen },
  title = { Classification of Obstructive Sleep Apnea Using Machine
Learning },
  journal = { American journal of respiratory and critical care medicine
},
  publisher = { American Thoracic Society },
  pages = { 1 Seite },
  volume = { 197 },
  number = { Abstract Issue },
  year = { 2018 },
  address = { New York, NY },
  issn = { 0003-0805 },
  organization = { International Conference of the American-Thoracic-
Society, San Diego, CA (USA), 2018-05-18 - 2018-05-23 },
  typ = { PUB:(DE-HGF)1 },
  reportid = { RWTH-2018-231113 },
  cin = { 611010 / 122810 / 120000 },
  url = {
https://www.atsjournals.org/doi/abs/10.1164/ajrccm-conference.2018.197.1_Mee
tingAbstracts.A7449 },
}
```

```
@article { PAS+19,  
  author = { Pomprapa, Anake and Ahmed, Waqar and Stollenwerk, André and  
Kowalewski, Stefan and Leonhardt, Steffen },  
  title = { Deep Learning of Arrhythmia Analysis Based on Convolutional  
Neural Network },  
  journal = { International journal of bioelectromagnetism : IJBEM },  
  publisher = { International Society for Bioelectromagnetism },  
  pages = { 48-58 },  
  volume = { 21 },  
  number = { 1 },  
  year = { 2019 },  
  address = { Tampere },  
  issn = { 1456-7857 },  
  doi = { 10.18154/RWTH-2019-03336 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2019-03336 },  
  cin = { 611010 / 122810 / 120000 },  
  url = { http://www.ijbem.org/volume21/number1/48-58.pdf },  
}
```

```
@article { PAS+18b,  
  author = { Pomprapa, Anake and Ahmed, Waqar and Stollenwerk, André and  
Kowalewski, Stefan and Uguz, Durmus Umutcan and Leonhardt, Steffen },  
  title = { Arrhythmia Analysis in a Non-contact cECG Chair using  
Convolutional Neural Network },  
  journal = { International journal of bioelectromagnetism : IJBEM },  
  publisher = { International Society for Bioelectromagnetism },  
  pages = { 47-50 },  
  volume = { 20 },  
  number = { 1 },  
  year = { 2018 },  
  address = { Tampere },  
  issn = { 1456-7865 },  
  organization = { 11. International Conference on Bioelectromagnetism,  
Aachen (Germany), 2018-05-23 - 2018-05-25 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2019-10694 },  
  cin = { 611010 / 122810 / 120000 },  
  url = { http://www.ijbem.org/volume20/number1/47-50.pdf },  
}
```

```
@techreport { PSS+21,  
  author = { Preuss, R{"u"}diger and Smieschek, Manfred and Stollenwerk,  
André and Kowalewski, Stefan and Heinrichs, Timo },  
  title = { Beh{"a"}lterreinigungsmaschine },  
  pages = { 19 Seiten : Illustrationen },  
  year = { 2021 },  
  typ = { PUB:(DE-HGF)23 },  
  reportid = { RWTH-2022-07169 },  
  cin = { 122810 / 120000 },  
  url = {
```

```
https://worldwide.espacenet.com/patent/search/family/066998405/publication/D  
E102018120081B4?q=DE102018120081 },  
}
```

```
@inproceedings { RKH+08,  
  author = { Reinbacher, Thomas and Kramer, Michael and Horauer, Martin  
and Schlich, Bastian },  
  title = { Motivating model checking for embedded systems software },  
  booktitle = { 2008 IEEE/ASME International Conference on Mechatronic  
and Embedded Systems and Applications : MESA ; Beijing, China, 12 - 15  
October 2008 },  
  publisher = { IEEE },  
  pages = { 546-551 },  
  year = { 2008 },  
  address = { Piscataway, NJ },  
  organization = { 2008 IEEE/ASME International Conference on Mechatronic  
and Embedded Systems and Applications, Beijing (Peoples R China), 2008-10-12  
- 2008-10-15 },  
  doi = { 10.1109/MESA.2008.4735653 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-172092 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/99089 },  
}
```

```
@inproceedings { RBH+09,  
  author = { Reinbacher, Thomas and Brauer, J{\\"o}rg and Horauer, Martin  
and Schlich, Bastian },  
  title = { Refining assembly code static analysis for the Intel MCS-51  
microcontroller },  
  booktitle = { 2009 IEEE International Symposium on Industrial Embedded  
Systems (SIES 2009) : Lausanne, Switzerland, 08 - 10 July 2009 / [sponsored  
by: IEEE Industrial Electronics Society (IES)] },  
  publisher = { IEEE },  
  pages = { 161-170 },  
  year = { 2009 },  
  address = { Piscataway, NJ },  
  organization = { 2009 IEEE International Symposium on Industrial  
Embedded Systems, Lausanne (Switzerland), 2009-07-08 - 2009-07-10 },  
  doi = { 10.1109/SIES.2009.5196212 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-172391 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/99425 },  
}
```

```
@inproceedings { RHS09,  
  author = { Reinbacher, Thomas and Horauer, Martin and Schlich, Bastian  
},  
  title = { Using 3-valued memory representation for state space  
reduction in embedded assembly code model checking },
```

```
booktitle = { Proceedings of the 2009 IEEE Symposium on Design and
Diagnostics of Electronic Circuits and Systems : April 15-17, 2009, Liberec,
Czech Republic / M. Renovell; IEEE Computer Society ... },
publisher = { IEEE },
pages = { 114-119 },
year = { 2009 },
address = { Piscataway, N.J.] },
organization = { 2009 IEEE Symposium on Design and Diagnostics of
Electronic Circuits and Systems, Liberec (Czech Republic), 2009-04-15 -
2009-04-17 },
doi = { 10.1109/DDECS.2009.5012109 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-172518 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/99559 },
}
```

```
@inproceedings { RKH+08a,
author = { Reinbacher, Thomas and Kramer, Michael and Horauer, Martin
and Schlich, Bastian },
title = { Challenges in embedded model checking : a simulator for the
[mc]square model checker },
booktitle = { 2008 International Symposium on Industrial Embedded
Systems : [SIES'2008] ; La Grande Motte, France, 11 - 13 June 2008 / IEEE },
publisher = { IEEE },
pages = { 245-248 },
year = { 2008 },
address = { Piscataway, NJ },
organization = { 2008 International Symposium on Industrial Embedded
Systems, La Grande Motte (France), 2008-06-11 - 2008-06-13 },
doi = { 10.1109/SIES.2008.4577709 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-172528 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/99569 },
}
```

```
@inproceedings { RBS+11,
author = { Reinbacher, Thomas and Brauer, J{"o}rg and Schachinger,
Daniel and Steininger, Andreas and Kowalewski, Stefan },
title = { Automated Test-Trace Inspection for Microcontroller Binary
Code },
booktitle = { Runtime Verification : Second International Conference,
RV 2011, San Francisco, CA, USA, September 27-30, 2011, Revised Selected
Papers / edited by Sarfraz Khurshid, Koushik Sen },
publisher = { Springer },
pages = { 239-244 },
series = { Lecture notes in computer science },
year = { 2011 },
address = { Berlin ; Heidelberg },
organization = { Runtime Verification : Second International
```

```
Conference, San Francisco, CA (USA), 2011-09-27 - 2011-09-30 },
doi = { 10.1007/978-3-642-29860-8_18 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-194496 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/123647 },
}
```

```
@inproceedings { RBH+11,
  author = { Reinbacher, Thomas and Brauer, J{"o}rg and Horauer, Martin
and Steininger, Andreas and Kowalewski, Stefan },
  title = { Past Time LTL Runtime Verification for Microcontroller Binary
Code },
  booktitle = { Formal methods for industrial critical systems : 16th
international workshop, FMICS 2011, Trento, Italy, August 29 - 30, 2011 ;
proceedings / Gwen Sala{"u"}n; Bernhard Sch{"a"}tz (eds.) },
  publisher = { Springer },
  pages = { 37-51 },
  series = { Lecture notes in computer science },
  year = { 2011 },
  address = { Heidelberg [u.a.] },
  organization = { Formal methods for industrial critical systems : 16.
international workshop, Trento (Italy), 2011-08-29 - 2011-08-30 },
  doi = { 10.1007/978-3-642-24431-5 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-194606 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/123834 },
}
```

```
@inproceedings { RSM+11,
  author = { Reinbacher, Thomas and Steininger, Andreas and M{"u"}ller,
Tobias and Horauer, Martin and Brauer, J{"o}rg and Kowalewski, Stefan },
  title = { Hardware Support for Efficient Testing of Embedded Software
},
  booktitle = { Proceedings of the ASME International Design Engineering
Technical Conferences and Computers and Information in Engineering
Conference - 2011 : presented at ASME 2011 International Design Engineering
Technical Conferences and Computers and Information in Engineering
Conference, August 28 - 31, 2011, Washington, D.C. / sponsored by the Design
Engineering Division, ASME; the Computers and Information in Engineering
Division, ASME. - Vol. 3: ASME/IEEE International Conference on Mechatronic
and Embedded Systems and Applications, Pt. A },
  publisher = { ASME },
  pages = { 3-12 },
  year = { 2011 },
  address = { New York, NY },
  organization = { ASME International Design Engineering Technical
Conferences and Computers and Information in Engineering Conference - 2011,
Washington, DC (USA), 2011-08-28 - 2011-08-31 },
  doi = { 10.1115/DETC2011-47139 },
}
```

```
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-195986 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/125522 },
}

@inproceedings { RBH+10,
  author = { Reinbacher, Thomas and Brauer, J{"o}rg and Horauer, Martin
and Steininger, Andreas and Kowalewski, Stefan },
  title = { Test-Case Generation for Embedded Binary Code Using Abstract
Interpretation },
  booktitle = { Sixth Doctoral Workshop on Mathematical and Engineering
Methods in Computer Science (Selected Papers) (MEMICS 2010) [Elektronische
Ressource] / Hrsg.: Ludek Matyska ; Michal Kozubek ; Tomáš Vojnar ; Pavel
Zemcík ; David Antos },
  publisher = { Schloss Dagstuhl - Leibniz-Zentrum f{"u}r Informatik },
  pages = { 101-108 },
  series = { OASICS - OpenAccess Series in Informatics },
  year = { 2010 },
  address = { Wadern },
  organization = { 6. Doctoral Workshop on Mathematical and Engineering
Methods in Computer Science },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196795 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/126459 },
}

@inproceedings { RB11,
  author = { Reinbacher, Thomas and Brauer, J{"o}rg },
  title = { Precise Control Flow Reconstruction Using Boolean Logic },
  booktitle = { EMSOFT '11 : Proceedings of the ninth ACM international
conference on Embedded software ; October 9-14, 2011, Taipei, Taiwan },
  publisher = { ACM },
  pages = { 117-126 },
  year = { 2011 },
  address = { New York, NY },
  organization = { 9. ACM international conference on Embedded software,
Taipei (Taiwan), 2011-10-09 - 2011-10-14 },
  doi = { 10.1145/2038642.2038662 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198496 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/128379 },
}

@inproceedings { RGH+11,
  author = { Reinbacher, Thomas and G{"u}ckel, Dominique and Horauer,
Martin and Kowalewski, Stefan },
  title = { Testing Microcontroller Software Simulators },
  booktitle = { INFORMATIK 2011 : Informatik schafft Communities ;
```

```
Beitr{\a}ge der 41. Jahrestagung der Gesellschaft f{\u}r Informatik e.V.
(GI) 4.-7.10.2011 in Berlin / Hans-Ulrich Hei{\ss}, Peter Pepper, Holger
Schlingloff, J{\o}rg Schneider (Hrsg.) },
  publisher = { Ges. f{\u}r Informatik },
  pages = { 15 S. },
  series = { GI-Edition : Lecture Notes in Informatics : Proceedings },
  year = { 2011 },
  address = { Bonn },
  organization = { 41. Jahrestagung der Gesellschaft f{\u}r Informatik
e.V., Berlin (Germany), 2011-10-04 - 2011-10-07 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198689 },
  cin = { 120000 / 122810 },
  url = { http://www.user.tu-berlin.de/komm/CD/paper/061433.pdf },
}

@inproceedings { RHS+09,
  author = { Reinbacher, Thomas and Horauer, Martin and Schlich, Bastian
and Brauer, J{\o}rg and Scheuer, Florian },
  title = { Model checking assembly code of an industrial knitting
machine },
  booktitle = { Proceedings of the 2009 Fourth International Conference
on Embedded and Multimedia Computing : EM-Com 2009 : [December 10-12, 2009,
Jeju Island, Korea] },
  publisher = { IEEE },
  pages = { 8 S. },
  year = { 2009 },
  address = { Piscataway, NJ },
  organization = { 2009 Fourth International Conference on Embedded and
Multimedia Computing, Jeju Island (South Korea), 2009-12-10 - 2009-12-12 },
  doi = { 10.1109/EM-COM.2009.5402986 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-199048 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/129021 },
}

@article { RHS+11,
  author = { Reinbacher, Thomas and Horauer, Martin and Schlich, Bastian
and Brauer, J{\o}rg and Scheuer, Florian },
  title = { Model checking embedded software of an industrial knitting
machine },
  journal = { International journal of information technology,
communications and convergence },
  publisher = { Inderscience Publishers },
  pages = { 186-205 },
  volume = { 1 },
  number = { 2 },
  year = { 2011 },
  address = { Geneva },
  issn = { 2042-3217 },
```

```
doi = { 10.1504/IJITCC.2011.039285 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-052838 },
cin = { 122810 / 120000 },
url = { http://www.inderscience.com/IJITCC },
}

@article { RBH+14,
  author = { Reinbacher, Thomas and Brauer, J{\\"o}rg and Horauer, Martin
and Steininger, Andreas and Kowalewski, Stefan },
  title = { Runtime verification of microcontroller binary code },
  journal = { Science of computer programming },
  publisher = { Elsevier },
  pages = { 109-129 },
  volume = { 80 },
  year = { 2014 },
  address = { Amsterdam },
  issn = { 0167-6423 },
  organization = { Brazilian Symposium on Programming Languages },
  doi = { 10.1016/j.scico.2012.10.015 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-080463 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/231479 },
}

@article { RFB14,
  author = { Reinbacher, Thomas and Fuegger, Matthias and Brauer,
J{\\"o}rg },
  title = { Runtime verification of embedded real-time systems },
  journal = { Formal methods in system design },
  publisher = { Springer Science + Business Media B.V },
  pages = { 203-239 },
  volume = { 44 },
  number = { 3 },
  year = { 2014 },
  address = { Dordrecht },
  issn = { 0925-9856 },
  doi = { 10.1007/s10703-013-0199-z },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-089599 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/446689 },
}

@phdthesis { Rek13,
  author = { Reke, Michael },
  othercontributors = { Kowalewski, Stefan },
  title = { Modellbasierte Entwicklung automobiler Steuerungssysteme in
kleinen und mittelst{\\"a}ndischen Unternehmen },
  publisher = { Shaker },
```

```
pages = { IX, 171 S. : Ill., graph. Darst. },
series = { Aachener Informatik-Berichte },
year = { 2013 },
address = { Aachen },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-CONV-143805 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/211920/files/4545.pdf
},
}
```

```
@inproceedings { RDK+12,
  author = { Reuter, Sebastian and Diab, Hilal and Kowalewski, Stefan and
Hauck, Eckart and Jeschke, Sabina },
  title = { Design and implementation of a vehicle dynamics control
system by means of torque vectoring for an autonomous vehicle },
  booktitle = { IEEE International Conference on Robotics and Biomimetics
(ROBIO), 2012 : 11 - 14 Dec. 2012, Guangzhou, China / sponsored by IEEE
Robotics and Automation Society (RAS) ... },
  publisher = { IEEE },
  pages = { 1691-1696 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { 2012 IEEE International Conference on Robotics and
Biomimetics, Guangzhou (Peoples R China), 2012-12-11 - 2012-12-14 },
  doi = { 10.1109/ROBIO.2012.6491211 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-203323 },
  cin = { 416910 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/225742 },
}
```

```
@phdthesis { Ric14,
  author = { Richenhagen, Johannes Martin },
  othercontributors = { Pischinger, Stefan and Kowalewski, Stefan },
  title = { Entwicklung von Steuerungs-Software f{"u}r den automobilen
Antriebsstrang mit agilen Methoden },
  pages = { X, 197 S. : Ill., graph. Darst. },
  year = { 2014 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-207105 },
  cin = { 412310 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/465563 },
}
```

```
@inbook { SK07,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Achieving highly reliable embedded software : an empirical
evaluation of different approaches },
  booktitle = { Computer safety, reliability, and security : 26th
```

```
International Conference, SAFECOMP 2007, Nuremberg, Germany, September
18-21, 2007 ; proceedings / Francesca Saglietti ; Norbert Oster (Eds.) },
  publisher = { Springer },
  pages = { 270-275 },
  volume = { 4680 },
  series = { Lecture notes in computer science },
  year = { 2007 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-540-75101-4_26 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-101607 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/90177 },
}
```

```
@inproceedings { ST08,
  author = { Salewski, Falk and Taylor, Adam },
  title = { Systematic considerations for the application of FPGAs in
industrial applications },
  booktitle = { 2008 IEEE International Symposium on Industrial
Electronics : [ISIE 2008] ; Cambridge, United Kingdom, 30 June - 2 July
2008. - Vol. 4 },
  publisher = { IEEE },
  pages = { 2009-2015 },
  year = { 2008 },
  address = { Piscataway, NJ },
  organization = { 2008 IEEE International Symposium on Industrial
Electronics, Cambridge (UK), 2008-06-30 - 2008-07-02 },
  doi = { 10.1109/ISIE.2008.4677068 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-171801 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/98745 },
}
```

```
@inproceedings { SK08,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { The effect of real-time software reuse in FPGAs and
microcontrollers with respect to software faults },
  booktitle = { 2008 International Symposium on Industrial Embedded
Systems : [SIES'2008] ; La Grande Motte, France, 11 - 13 June 2008 / IEEE },
  publisher = { IEEE },
  pages = { 141-148 },
  year = { 2008 },
  address = { Piscataway, NJ },
  organization = { 2008 International Symposium on Industrial Embedded
Systems, La Grande Motte (France), 2008-06-11 - 2008-06-13 },
  doi = { 10.1109/SIES.2008.4577692 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-171803 },
  cin = { 122810 / 120000 },
}
```

```
url = { http://publications.rwth-aachen.de/record/98747 },
}

@inproceedings { SK05,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Zuverl{\a}ssigkeitsmechanismen f{\u}r Eingebettete Systeme
},
  booktitle = { Zuverl{\a}ssigkeit in eingebetteten Systemen : Ada
Deutschland Tagung 2005, 13. und 14. Oktober 2005, Rheinische-
Westf{\a}lische Technische Hochschule Aachen / Veransth.: Gesellschaft
f{\u}r Informatik, Fachgruppe Ada Deutschland ... Hubert B. Keller ...
(Hrsg.) },
  publisher = { Shaker },
  pages = { 39-51 },
  series = { Ada-Deutschland-Tagung ... },
  year = { 2005 },
  address = { Aachen },
  organization = { Zuverl{\a}ssigkeit in eingebetteten Systemen : Ada
Deutschland Tagung 2005, Aachen (Germany), 2005-10-13 - 2005-10-14 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-182396 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/110357 },
}

@inproceedings { SWK06,
  author = { Salewski, Falk and Wilking, Dirk and Kowalewski, Stefan },
  title = { The effect of diverse hardware platforms on n-version
programming in embedded systems : an empirical evaluation },
  booktitle = { 3rd Workshop on Dependable Embedded Sytems : the workshop
was held on October 1st, 2006 at the University of Leeds ; Final Proceedings
- November 16th / Ed. by Raimund Kirner ... },
  publisher = { University of Technology, Real-Time Systems Group },
  pages = { 61-66 },
  series = { Vienna University of Technology : Technical Report },
  year = { 2006 },
  address = { Vienna },
  organization = { 3. Workshop on Dependable Embedded Sytems, Leeds (UK),
2006-10-01 - 2006-10-01 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-183689 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/111741 },
}

@inproceedings { SK06,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Exploring the differences of FPGAs and microcontrollers for
their use in safety-critical embedded applications },
  booktitle = { 2006 International Symposium on Industrial Embedded
Systems : Antibes Juan-Les-Pins, France, 18 - 20 October 2006 / IEEE },
```

```
publisher = { IEEE Service Center },
year = { 2006 },
address = { Piscataway, NJ },
organization = { 2006 International Symposium on Industrial Embedded
Systems, Antibes Juan-Les-Pins (France), 2006-10-18 - 2006-10-20 },
doi = { 10.1109/IES.2006.357483 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-185313 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/113553 },
}

@inproceedings { ST07,
author = { Salewski, Falk and Taylor, Adam },
title = { Fault handling in FPGAs and microcontrollers in safety-
critical embedded applications : a comparative survey },
booktitle = { Proceedings / 10th Euromicro Conference on Digital System
Design: Architectures, Methods and Tools : DSD 2007 ; 29 - 31 August 2007,
L{"u"}beck, Germany / European Organisation for Information Technology and
Microelectronics. ed. by Hana Kubátová },
publisher = { IEEE Computer Soc. },
pages = { 124-131 },
year = { 2007 },
address = { Los Alamitos, Calif. [u.a.] },
organization = { 10. Euromicro Conference on Digital System Design:
Architectures, Methods and Tools, L{"u"}beck (Germany), 2007-08-29 -
2007-08-31 },
doi = { 10.1109/DSD.2007.4341459 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188509 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/117068 },
}

@inproceedings { SK07a,
author = { Salewski, Falk and Kowalewski, Stefan },
title = { Testing Issues in Empirical Reliability Evaluation of
Embedded Real-Time Systems },
booktitle = { Proceedings Work-in-Progress-Session of the 13th Real
Time and Embedded Technology and Applications Symposium : 3-6 April, 2007,
Bellevue, Washington / ed. by Chenyang Lu },
pages = { 48-51 },
series = { Technical Report WUCSE },
year = { 2007 },
address = { [s.l.] },
organization = { 13. Real Time and Embedded Technology and Applications
Symposium, Bellevue (USA), 2007-04-03 - 2007-04-06 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-188513 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/117072 },
}
```

```
}

@inproceedings { SK07b,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { The effect of hardware platform selection on safety-critical
software in embedded systems : empirical evaluations },
  booktitle = { 2007 International Symposium on Industrial Embedded
Systems : Costa da Caparica, [Lisbon], Portugal, 4 - 6 July 2007 ;
[SIES'2007] / IEEE / IEEE Computer Society Press },
  publisher = { IEEE },
  pages = { 78-85 },
  year = { 2007 },
  address = { Piscataway, NJ },
  organization = { International Symposium on Industrial Embedded
Systems, Costa da Caparica (Portugal), 2007-07-04 - 2007-07-06 },
  doi = { 10.1109/SIES.2007.4297320 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188516 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/117075 },
}

@article { SK08a,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Hardware/software design considerations for automotive
embedded systems },
  journal = { IEEE transactions on industrial informatics },
  publisher = { IEEE },
  pages = { 156-163 },
  volume = { 4 },
  number = { 3 },
  year = { 2008 },
  address = { New York, NY },
  issn = { 1551-3203 },
  doi = { 10.1109/TII.2008.2002919 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-012502 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/131366 },
}

@article { SK05a,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Zuverl{\a}ssigkeitsmechanismen f{\u}r Eingebettete Systeme
: Kurzfassung des Vortrags vom Workshop Zuverl{\a}ssigkeit in eingebetteten
Systemen },
  journal = { Softwaretechnik-Trends },
  publisher = { K{\o}llen },
  volume = { 25 },
  number = { 4 },
  year = { 2005 },
```

```
    address = { Bonn },
    issn = { 0720-8928 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-029262 },
    cin = { 122810 / 120000 },
    url = {
http://pi.informatik.uni-siegen.de/stt/25_4/01_Fachgruppenberichte/Ada/03_Sa
lewski_Kowalewski.pdf },
}

@article { SK07c,
    author = { Salewski, Falk and Kowalewski, Stefan },
    title = { Hardware platform design decisions in embedded systems : a
systematic teaching approach },
    journal = { ACM SIGBED review },
    publisher = { Association for Computing Machinery },
    pages = { 27-35 },
    volume = { 4 },
    number = { 1 },
    year = { 2007 },
    address = { New York, NY },
    issn = { 1551-3688 },
    organization = { Special Issue on the Second Workshop on Embedded
System Education },
    doi = { 10.1145/1217809.1217814 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-038217 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/160044 },
}

@article { SWK05,
    author = { Salewski, Falk and Wilking, Dirk and Kowalewski, Stefan },
    title = { Diverse hardware platforms in embedded systems lab courses: A
way to teach the differences },
    journal = { ACM SIGBED review },
    publisher = { Association for Computing Machinery },
    pages = { 70-74 },
    volume = { 2 },
    number = { 4 },
    year = { 2005 },
    address = { New York, NY },
    issn = { 1551-3688 },
    organization = { 1. Workshop on Embedded Systems Education },
    doi = { 10.1145/1121812.1121825 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-038218 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/160045 },
}
```

```
@phdthesis { Sal08,  
  author = { Salewski, Falk },  
  othercontributors = { Kowalewski, Stefan },  
  title = { Empirical evaluations of safety critical embedded systems },  
  publisher = { Publikationsserver der RWTH Aachen University },  
  pages = { X, 175 S. : graph. Darst. },  
  series = { Aachener Informatik-Berichte },  
  year = { 2008 },  
  address = { Aachen },  
  typ = { PUB:(DE-HGF)11 },  
  reportid = { RWTH-CONV-145380 },  
  cin = { 120000 / 122810 },  
  url = {  
http://publications.rwth-aachen.de/record/459474/files/Salewski_Falk.pdf },  
}
```

```
@inproceedings { SSK+11,  
  author = { Sasnauskas, Raimondas and Soria Dustmann, Oscar and  
Kaminski, Benjamin Lucien and Wehrle, Klaus and Weise, Carsten and  
Kowalewski, Stefan },  
  title = { Scalable symbolic execution of distributed systems },  
  booktitle = { 2011 31st International Conference on Distributed  
Computing Systems, (ICDCS 2011) : Minneapolis, Minnesota, USA, 20 - 24 June  
2011 / IEEE. [Sponsored by IEEE Computer Society Technical Committee on  
Distributed Processing. David Hung-Chang Du, general chair] },  
  publisher = { IEEE },  
  pages = { 333-342 },  
  year = { 2011 },  
  address = { Piscataway, NJ },  
  organization = { 31. International Conference on Distributed Computing  
Systems, Minneapolis, MN (USA), 2011-06-20 - 2011-06-24 },  
  doi = { 10.1109/ICDCS.2011.28 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-196998 },  
  cin = { 121710 / 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/126707 },  
}
```

```
@inproceedings { SLA+10,  
  author = { Sasnauskas, Raimondas and Landsiedel, Olaf and Alizai,  
Muhammad Hamad and Weise, Carsten and Kowalewski, Stefan and Wehrle, Klaus  
},  
  title = { KleeNet: discovering insidious interaction bugs in wireless  
sensor networks before deployment },  
  booktitle = { Proceedings of the 9th ACM/IEEE International Conference  
on Information Processing in Sensor Networks },  
  publisher = { ACM },  
  pages = { 186-196 },  
  year = { 2010 },  
  organization = { 9. ACM/IEEE International Conference on Information  
Processing in Sensor Networks },
```

```

doi = { 10.1145/1791212.1791235 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236310 },
cin = { 122810 / 120000 / 121710 },
url = { http://publications.rwth-aachen.de/record/752287 },
}

@inproceedings { SSK+23,
  author = { Sch{"a}fer, Simon and Steidl, Hendrik and Kowalewski,
Stefan and Alrifaae, Bassam },
  title = { Investigating a Pressure Sensitive Surface Layer for Vehicle
Localization },
  booktitle = { IEEE IV 2023 : IEEE Intelligent Vehicles Symposium :
Anchorage, Alaska, USA, June 4-7, 2023 / sponsors and organizers: IEEE, IEEE
Intelligent Transportation Systems Society },
  publisher = { IEEE },
  pages = { 6 Seiten },
  year = { 2023 },
  address = { Piscataway, NJ },
  organization = { 34. IEEE Intelligent Vehicles Symposium, Anchorage, AK
(USA), 2023-06-04 - 2023-06-07 },
  doi = { 10.1109/IV55152.2023.10186582 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2023-07808 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/963410/files/963410.pdf },
  illkey = { DFG project 453596084 - TRR 339: Digitaler Zwilling
Stra{\ss}e – Physikalisch-informatorische Abbildung des Systems „Stra{\ss}e
der Zukunft“ (453596084) },
}

@article { SMK+20,
  author = { Scheffe, Patrick and Maczijewski, Janis and Kloock,
Maximilian Martin and Kampmann, Alexandru and Derks, Andreas and Kowalewski,
Stefan and Alrifaae, Bassam },
  title = { Networked and Autonomous Model-scale Vehicles for Experiments
in Research and Education },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  pages = { 17332-17337 },
  volume = { 53 },
  number = { 2 },
  year = { 2020 },
  address = { Frankfurt },
  issn = { 2405-8963 },
  organization = { 21. IFAC World Congress, online, 2020-07-11 -
2020-07-17 },
  doi = { 10.1016/j.ifacol.2020.12.1821 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2021-03987 },

```

```
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/817552/files/817552.pdf },
}

@inproceedings { SDA22,
    author = { Scheffe, Patrick and Dorndorf, Georg and Alrifaae, Bassam },
    title = { Increasing Feasibility with Dynamic Priority Assignment in
Distributed Trajectory Planning for Road Vehicles },
    booktitle = { 2022 IEEE 25th International Conference on Intelligent
Transportation Systems (ITSC) : 8-12 Oct. 2022 },
    publisher = { IEEE },
    pages = { 3873-3879 },
    year = { 2022 },
    address = { Piscataway, NJ },
    organization = { 25. International Conference on Intelligent
Transportation Systems, Macau (Macau), 2022-10-08 - 2022-10-12 },
    doi = { 10.1109/ITSC55140.2022.9922028 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2022-10176 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/855355 },
}

@article { SHK+23,
    author = { Scheffe, Patrick and Henneken, Theodor Mario and Kloock,
Maximilian Martin and Alrifaae, Bassam },
    title = { Sequential Convex Programming Methods for Real-time Optimal
Trajectory Planning in Autonomous Vehicle Racing },
    journal = { IEEE Transactions on Intelligent Vehicles : T-IV },
    publisher = { IEEE },
    pages = { 661-672 },
    volume = { 8 },
    number = { 1 },
    year = { 2023 },
    address = { New York, NY },
    issn = { 2379-8858 },
    doi = { 10.1109/TIV.2022.3168130 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2022-10294 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/855596 },
}

@article { SPF+22,
    author = { Scheffe, Patrick and Pedrosa, Matheus V. A. and
Fla{\ss}kamp, Kathrin and Alrifaae, Bassam },
    title = { Receding Horizon Control Using Graph Search for Multi-Agent
Trajectory Planning },
    journal = { IEEE Transactions on Control Systems Technology },
    publisher = { IEEE },
```

```

    pages = { 1092-1105 },
    volume = { 31 },
    number = { 3 },
    year = { 2022 },
    address = { New York, NY },
    issn = { 1063-6536 },
    doi = { 10.1109/TCST.2022.3214718 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2022-10295 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/855597 },
}

@inproceedings { SA23,
    author = { Scheffe, Patrick and Alrifaae, Bassam },
    title = { A Scaled Experiment Platform to Study Interactions Between
Humans and CAVs },
    booktitle = { IEEE IV 2023 : IEEE Intelligent Vehicles Symposium :
Anchorage, Alaska, USA, June 4-7, 2023 / sponsors and organizers: IEEE, IEEE
Intelligent Transportation Systems Society },
    publisher = { IEEE },
    pages = { 6 Seiten },
    year = { 2023 },
    address = { Piscataway, NJ },
    organization = { 34. IEEE Intelligent Vehicles Symposium, Anchorage, AK
(USA), 2023-06-04 - 2023-06-07 },
    doi = { 10.1109/IV55152.2023.10186623 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2023-07513 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/962628 },
}

@inproceedings { SAK23,
    author = { Scheffe, Patrick and Alrifaae, Bassam and Kowalewski, Stefan
},
    title = { Networked Model Predictive Control for Multi-Vehicle
Decision-Making },
    booktitle = { 57. Regelungstechnisches Kolloquium in Boppard : 22.-24.
Februar 2023 : Kurzfassungen },
    publisher = { [Fraunhofer IOSB] },
    year = { 2023 },
    address = { [Karlsruhe] },
    organization = { 57. Regelungstechnisches Kolloquium, Boppard
(Germany), 2023-02-22 - 2023-02-24 },
    typ = { PUB:(DE-HGF)1 },
    reportid = { RWTH-2023-10820 },
    cin = { 122810 / 120000 },
    url = {
https://www.tib.eu/de/suchen?tx\_tibsearch\_search%5Baction%5D=download&tx\_tibsearch\_search%5Bcontroller%5D=Download&tx\_tibsearch\_search%5Bdocid%5D=TIBKAT
}

```

```
%3A1839619945&cHash=ffac3850eb369a629012062cc89364ea#download-mark },
  illkey = { DFG project 412371229 - GROUND-Plan: Graphenbasierte,
Optimale und Kooperative Trajektorienplanung für Interagierende
Automobile (412371229) },
}

SDK13,
  author = { Schellen, Johannes and Dernehl, Christian and Kowalewski,
Stefan },
  title = { Optimizing Image Processing on OMAP3 with driver-level frame
buering and color space conversion },
  publisher = { IMAV },
  pages = { 1-8 },
  year = { 2013 },
  organization = { International Micro Air Vehicle Conference and Flight
Competition },
  typ = { PUB:(DE-HGF)35 },
  reportid = { RWTH-CONV-204138 },
  cin = { 120000 / 122810 },
  url = { http://www.youtube.com/watch?v=4HUwtUy-mFc },
}

@inproceedings { SSS16,
  author = { Schlaefer, Alexander and Schupp, Sibylle and Stollenwerk,
André },
  title = { FS-MCPS: 2nd Workshop on Fail Safety in Medical Cyber-
Physical Systems },
  booktitle = { Software Engineering 2016 : 23. - 26. Februar 2016, Wien,
{\\"0}sterreich / Jens Knoop ; Uwe Zdun (Hrsg.) },
  publisher = { Gesellschaft für Informatik },
  pages = { 127-128 },
  series = { GI-Edition : lecture notes in informatics },
  year = { 2016 },
  address = { Bonn },
  organization = { Software Engineering 2016, Wien (Austria), 2016-02-23
- 2016-02-26 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-207904 },
  cin = { 122810 / 120000 / 080017 },
  url = { http://publications.rwth-aachen.de/record/573824 },
}

@inproceedings { SSS16a,
  author = { Schlaefer, Alexander and Schupp, Sibylle and Stollenwerk,
André },
  title = { 2nd Workshop on Fail Safety in Medical Cyber-Physical Systems
(FS-MCPS) },
  booktitle = { Gemeinsamer Tagungsband der Workshops der Tagung Software
Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 / Edited by: Wolf
Zimmermann, Lukas Alperowitz, Bernd Brügge, Jörg Fahsel, Andrea
Herrmann, Anne Hoffmann, Andreas Krall, Dieter Landes, Horst Lichter, Dirk
```

Riehle, Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer, Sibylle Schupp, Andreas Seitz, Andreas Steffens, André Stollenwerk, Rüdiger Weißbach },

```

    publisher = { RWTH Aachen },
    pages = { 172-173 },
    series = { CEUR Workshop Proceedings },
    year = { 2016 },
    address = { Aachen, Germany },
    organization = { 2. Workshop on Fail Safety in Medical Cyber-Physical
Systems, Wien (Austria), 2016-02-23 - 2016-02-26 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-211642 },
    cin = { 122810 / 120000 / 080017 },
    url = { http://ceur-ws.org/Vol-1559/paper22.pdf },
}

```

```

@techreport { SRW+06,
    author = { Schlich, Bastian and Rohrbach, Michael and Weber, Michael
and Kowalewski, Stefan },
    title = { Model checking software for microcontrollers },
    pages = { 33 Bl. : graph. Darst. },
    volume = { 2006,11 },
    number = { AIB-2006-11 },
    series = { Achener Informatik-Berichte },
    year = { 2006 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)29 },
    reportid = { RWTH-CONV-008343 },
    cin = { 122810 / 120000 },
    url = { http://webdoc.sub.gwdg.de/ebook/serien/ah/AIB/2006-11.pdf },
}

```

```

@phdthesis { Sch08,
    author = { Schlich, Bastian },
    othercontributors = { Kowalewski, Stefan },
    title = { Model checking of software for microcontrollers },
    publisher = { RWTH Aachen, Department of Computer Science },
    pages = { IV, 159 S. : graph. Darst. },
    series = { Achener Informatik-Berichte },
    year = { 2008 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-125168 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/63747/files/Schlich_Bastian.pdf },
}

```

```

@inbook { SLK08,
    author = { Schlich, Bastian and Loll, Jann and Kowalewski, Stefan
},

```

```
title = { Application of static analyses for state space reduction to
microcontroller assembly code },
booktitle = { Formal methods for industrial critical systems : 12th
international workshop, FMICS 2007, Berlin, Germany, July 1 - 2, 2007 ;
revised selected papers / Stefan Leue; Pedro Merino (eds.) },
publisher = { Springer },
pages = { 21-37 },
volume = { 4916 },
series = { Lecture notes in computer science },
year = { 2008 },
address = { Berlin [u.a.] },
doi = { 10.1007/978-3-540-79707-4_4 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-095398 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/83462 },
}

@techreport { SK04,
author = { Schlich, Bastian and Kowalewski, Stefan },
title = { C Model Checker: Eine {\U}bersicht },
year = { 2004 },
typ = { PUB:(DE-HGF)29 },
reportid = { RWTH-CONV-101608 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/90178 },
}

@inproceedings { SGK08,
author = { Schlich, Bastian and G{\u}ckel, Dominique and Kowalewski,
Stefan },
title = { Modeling the environment of microcontrollers to tackle the
state-explosion problem in model checking },
booktitle = { Formal methods for automation and safety in railway and
automotive systems ; proceedings of Symposium FORMS/FORMAT 2008, Budapest,
Hungary, October 9 - 10, 2008 / Géza Tarnai ... (ed.) },
publisher = { L Harmattan },
year = { 2008 },
address = { Budapest },
organization = { Symposium FORMS/FORMAT 2008, Budapest (Hungary),
2008-10-09 - 2008-10-10 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-171805 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/98749 },
}

@inproceedings { SKW09,
author = { Schlich, Bastian and Kowalewski, Stefan and Wernerus,
J{\o}rg },
title = { Verifikation von SPS-Programmen in AWL mit Hilfe von direktem
```

```
Model-Checking },
  booktitle = { Automation 2009 : der Automatisierungskongress in
Deutschland ; Kongress Baden-Baden, 16. und 17. Juni 2009 ; [10.
Branchentreff der Mess- und Automatisierungstechnik] / VDI/VDE-Gesellschaft
Mess- und Automatisierungstechnik. - 2007 },
  publisher = { VDI-Verl. },
  pages = { 13-16 },
  series = { VDI-Berichte },
  year = { 2009 },
  address = { D{"u"}sseldorf },
  organization = { 10. Branchentreff der Mess- und
Automatisierungstechnik, Baden-Baden (Germany), 2009-06-16 - 2009-06-17 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172091 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99088 },
}

@techreport { SK05b,
  author = { Schlich, Bastian and Kowalewski, Stefan },
  title = { Model checking C source code for embedded systems },
  booktitle = { IEEE/NASA Workshop on Leveraging Applications of Formal
Methods, Verification, and Validation : IEEE/NASA ISoLA 2005 ; proceedings
of a workshop held at the Loyola College Graduate Center, Columbia,
Maryland, USA, 23 - 24 September 2005 ; with a special track on the theme of
formal methods in human and robotic space exploration / National Aeronautics
and Space Administration, Goddard Space Flight Center. Ed.: Tiziana Margaria
... },
  pages = { 65-77 },
  number = { NASA/CP-2005-212788 },
  year = { 2005 },
  address = { [S.l.] },
  organization = { IEEE/NASA Workshop on Leveraging Applications of
Formal Methods, Verification, and Validation, Columbia (USA), 2005-09-23 -
2005-09-24 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-009447 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/111740 },
}

@inproceedings { SNB+11,
  author = { Schlich, Bastian and Noll, Thomas and Brauer, J{"o"}rg and
Brutschy, Lucas },
  title = { Reduction of Interrupt Handler Executions for Model Checking
Embedded Software },
  booktitle = { Hardware and software: verification and testing : 5th
International Haifa Verification Conference, HCV 2009, Haifa, Israel,
October 19-22, 2009 : revised selected papers / Kedar Namjoshi ... (eds.) },
  publisher = { Springer },
  series = { Lecture Notes in Computer Science },
```

```
year = { 2011 },
address = { Heidelberg [u.a.] },
organization = { 5. International Haifa Verification Conference, HCV
2009, Haifa (Israel), 2009-10-19 - 2009-10-22 },
doi = { 10.1007/978-3-642-19237-1_5 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-187757 },
cin = { 122810 / 121310 / 120000 },
url = { http://publications.rwth-aachen.de/record/116214 },
}

@inproceedings { SK07d,
author = { Schlich, Bastian and Kowalewski, Stefan },
title = { An extendable architecture for model checking hardware-
specific automotive microcontroller code },
booktitle = { FORMS/FORMAT 2007 - 6th symposium : formal methods for
automation and safety in railway and automotive systems ; proceedings of
Symposium FORMS/FORMAT 2007, Braunschweig, Germany, 25th and 26th January,
2007 / Eckehard Schnieder; Géza Tarnai (Eds.) },
publisher = { GZVB },
pages = { 202-212 },
year = { 2007 },
address = { Braunschweig },
organization = { 6. symposium : formal methods for automation and
safety in railway and automotive systems, Braunschweig (Germany), 2007-01-25
- 2007-01-26 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188508 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/117067 },
}

@inproceedings { SSK07,
author = { Schlich, Bastian and Salewski, Falk and Kowalewski, Stefan
},
title = { Applying model checking to an automotive microcontroller
application },
booktitle = { 2007 International Symposium on Industrial Embedded
Systems : Costa da Caparica, [Lisbon], Portugal, 4 - 6 July 2007 ;
[SIES'2007] / IEEE / IEEE Computer Society Press },
publisher = { IEEE },
pages = { 209-216 },
year = { 2007 },
address = { Piscataway, NJ },
organization = { International Symposium on Industrial Embedded
Systems, Costa da Caparica (Portugal), 2007-07-04 - 2007-07-06 },
doi = { 10.1109/SIES.2007.4297337 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188512 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/117071 },
}
```

```
}

@inproceedings { SK06a,
  author = { Schlich, Bastian and Kowalewski, Stefan },
  title = { [mc]square: A model checker for microcontroller code },
  booktitle = { ISoLA 2006 : Second International Symposium on Leveraging
Applications of Formal Methods, Verification and Validation ; 15 - 19
November 2006, Paphos, Cyprus / IEEE Computer SocietyLeveraging Applications
of Formal Methods, Verification and Validation (ISoLA 2006) },
  publisher = { IEEE Computer Society Press },
  pages = { 466-473 },
  year = { 2006 },
  address = { Paphos, Cyprus },
  organization = { 2. International Symposium on Leveraging Applications
of Formal Methods, Verification and Validation, Paphos (Cyprus), 2006-11-15
- 2006-11-19 },
  doi = { 10.1109/ISoLA.2006.62 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188517 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/117076 },
}

@article { SK09,
  author = { Schlich, Bastian and Kowalewski, Stefan },
  title = { Model checking C source code for embedded systems },
  journal = { International journal on software tools for technology
transfer : STTT },
  publisher = { Springer },
  pages = { 187-202 },
  volume = { 11 },
  number = { 3 },
  year = { 2009 },
  address = { Berlin [u.a.] },
  issn = { 1433-2779 },
  doi = { 10.1007/s10009-009-0106-5 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-013187 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/132064 },
}

@article { Sch10,
  author = { Schlich, Bastian },
  title = { Model Checking of Software for Microcontrollers },
  journal = { ACM transactions on embedded computing systems : TECS },
  publisher = { ACM Press },
  pages = { 27 S. },
  volume = { 9 },
  number = { 4 },
  year = { 2010 },
```

```
address = { New York, NY },
issn = { 1539-9087 },
doi = { 10.1145/1721695.1721702 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-047530 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/169982 },
}

@article { SBK11,
  author = { Schlich, Bastian and Brauer, J{"o}rg and Kowalewski, Stefan },
  title = { Application of Static Analyses for State-Space Reduction to
the Microcontroller Binary Code },
  journal = { Science of computer programming },
  publisher = { Elsevier },
  pages = { 100-118 },
  volume = { 76 },
  number = { 2 },
  year = { 2011 },
  address = { Amsterdam [u.a.] },
  issn = { 0167-6423 },
  doi = { 10.1016/j.scico.2010.03.006 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-062661 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/186222 },
}

@article { SBW+09,
  author = { Schlich, Bastian and Brauer, J{"o}rg and Wernerus, J{"o}rg
and Kowalewski, Stefan },
  title = { Direct Model Checking of PLC Programs in IL },
  journal = { IFAC Proceedings Volumes },
  publisher = { Elsevier },
  pages = { 28-33 },
  volume = { 42 },
  number = { 5 },
  year = { 2009 },
  address = { Amsterdam },
  issn = { 1474-6670 },
  isbn = { 978-3-902661-44-9 },
  organization = { 2. IFAC Workshop on Dependable Control of Discrete
Systems, Bari (Italy), 2009-06-10 - 2009-06-12 },
  doi = { 10.3182/20090610-3-IT-4004.00010 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-236337 },
  cin = { 122810 / 120000 },
  url = {
http://www.embedded.rwth-aachen.de/lib/exe/fetch.php?media=bib:SBWK09.pdf },
}
```

```
@inproceedings { SPD+17,  
  author = { Schmidt, Teresa and Philipsen, Ralf and Dzafic, Dzenan and  
Ziefle, Martina },  
  title = { Watch Out! : User-Centered Feedback Design for a V2X-  
Smartphone App },  
  booktitle = { Digital Human Modeling. Applications in Health, Safety,  
Ergonomics, and Risk Management: Health and Safety : 8th International  
Conference, DHM 2017, Held as Part of HCI International 2017, Vancouver, BC,  
Canada, July 9-14, 2017, Proceedings, Part II / edited by Vincent G. Duffy  
},  
  publisher = { Springer International Publishing },  
  pages = { 365-383 },  
  series = { Lecture Notes in Computer Science },  
  year = { 2017 },  
  address = { Cham },  
  organization = { 8. International Conference on Digital Human Modeling  
and Applications in Health, Safety, Ergonomics and Risk Management,  
Vancouver (Canada), 2017-07-09 - 2017-07-14 },  
  doi = { 10.1007/978-3-319-58466-9_33 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2018-222740 },  
  cin = { 792310 / 080013 / 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/720296 },  
}
```

```
@article { SBB+23,  
  author = { Schmitt, Lukas and Beerwerth, Julius and Bahr, Matthias and  
Abel, Dirk },  
  title = { Data-Driven Predictive Control With Online Adaption:  
Application to a Fuel Cell System },  
  journal = { IEEE transactions on control systems technology },  
  pages = { 1-12 },  
  volume = { 10 },  
  year = { 2023 },  
  issn = { 1558-0865 },  
  doi = { 10.1109/TCST.2023.3293790 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2023-10978 },  
  cin = { 122810 / 120000 / 416610 },  
}
```

```
@inproceedings { SDH+08,  
  author = { Schmitz, Dominik and Drews, Peter and He{\ss}eler, Frank-  
Josef and Jarke, Matthias and Kowalewski, Stefan and Palczynski, Jacob and  
Polzer, Andreas and Reke, Michael and Rose, Thomas },  
  title = { Modellbasierte Anforderungserfassung f{\u}r softwarebasierte  
Regelungen },  
  booktitle = { Software Engineering 2008 : Fachtagung des GI-  
Fachbereichs Softwaretechnik, 18. - 22.02.2008 in M{\u}nchen / Gesellschaft  
f{\u}r Informatik (GI). Korbinian Herrmann; Bernd Bruegge (Hrsg.) },  
  publisher = { Ges. f{\u}r Informatik },
```

```

    pages = { 257-271 },
    series = { GI-Edition : Proceedings },
    year = { 2008 },
    address = { Bonn },
    organization = { Software Engineering 2008 : Fachtagung des GI-
Fachbereichs Softwaretechnik, M{"u"}nchen (Germany), 2008-02-18 - 2008-02-22
},
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-170551 },
    cin = { 120000 / 122810 / 121810 / 416610 },
    url = { http://publications.rwth-aachen.de/record/97321 },
}

```

```

@inproceedings { SZR+09,
    author = { Schmitz, Dominik and Zhang, Ming and Rose, Thomas and Jarke,
Matthias and Polzer, Andreas and Palczynski, Jacob and Kowalewski, Stefan
and Reke, Michael },
    title = { Mapping Requirement Models to Mathematical Models in Control
System Development },
    booktitle = { Model driven architecture - foundations and applications
: 5th European conference, ECMDA-FA 2009, Enschede, The Netherlands, June 23
- 26, 2009 ; proceedings / Richard F. Paige; Alan Hartman; Arend Rensink
(eds.) },
    publisher = { Springer },
    series = { Lecture notes in computer science },
    year = { 2009 },
    address = { Berlin [u.a.] },
    organization = { Model driven architecture - foundations and
applications : 5. European conference, Enschede (Netherlands), 2009-06-23 -
2009-06-26 },
    doi = { 10.1007/978-3-642-02674-4_18 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-172397 },
    cin = { 122810 / 121810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99431 },
}

```

```

@inproceedings { SMV+22,
    author = { Schnakenbeck, Aron and Mro{"ss"}, Robin and V{"o"}lker,
Marcus and Kowalewski, Stefan and Fay, Alexander },
    title = { Transformation von GRAFCET in GAL auf Basis eines
ausf{"u"}hrlichen Metamodells zur Verifikation von Entwurfsfehlern },
    booktitle = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen / Ulrich Jumar,
Christian Diedrich (Hrsg.) },
    publisher = { Otto-von-Guericke-Universit{"a"}t Magdeburg },
    pages = { 18 Seiten },
    year = { 2022 },
    address = { Magdeburg },
    organization = { 17. Fachtagung Entwurf komplexer
Automatisierungssysteme, Magdeburg (Germany), 2022-06-23 - 2022-06-24 },
}

```

```
    typ = { PUB:(DE-HGF)24 },
    reportid = { RWTH-2023-00551 },
    cin = { 122810 / 120000 },
}

@article { SMV+23,
  author = { Schnakenbeck, Aron and Mro{\ss}, Robin and V{\"o}lker,
Marcus and Kowalewski, Stefan and Fay, Alexander },
  title = { Transformation von GRAFCET in GAL auf Basis eines
ausf{\u}hrlichen Metamodells zur Verifikation von Entwurfsfehlern },
  journal = { Automatisierungstechnik : AT },
  publisher = { De Gruyter },
  pages = { 56-68 },
  volume = { 71 },
  number = { 1 },
  year = { 2023 },
  address = { Berlin },
  issn = { 2196-677X },
  doi = { 10.1515/auto-2022-0094 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2023-00552 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/862808/files/862808.pdf },
}

@inproceedings { SMV+23a,
  author = { Schnakenbeck, Aron and Mro{\ss}, Robin and V{\"o}lker,
Marcus and Kowalewski, Stefan and Fay, Alexander },
  title = { A Control Flow based Static Analysis of GRAFCET using
Abstract Interpretation },
  booktitle = { 2023 IEEE 21st International Conference on Industrial
Informatics (INDIN) : 18-20 July 2023 / publisher: IEEE },
  publisher = { IEEE },
  pages = { 7 Seiten },
  year = { 2023 },
  address = { [Piscataway, NJ] },
  organization = { IEEE 21. International Conference on Industrial
Informatics, Lemgo (Germany), 2023-07-18 - 2023-07-20 },
  doi = { 10.1109/INDIN51400.2023.10218176 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2023-09982 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/972069/files/972069.pdf },
  illkey = { DFG project 445866207 - Analyse von GRAFCET-Spezifikationen
zur Erkennung von Entwurfsfehlern (445866207) },
}

@inproceedings { SMV+23b,
  author = { Schnakenbeck, Aron and Mro{\ss}, Robin and V{\"o}lker,
```

```

Marcus and Kowalewski, Stefan and Fay, Alexander },
  title = { Structural Analysis of GRAFCET Control Specifications },
  booktitle = { [IEEE 28. International Conference on Emerging
Technologies and Factory Automation, ETFA, 2023-09-12 - 2023-09-15, Sinaia,
Romania] },
  publisher = { IEEE },
  year = { 2023 },
  organization = { IEEE 28. International Conference on Emerging
Technologies and Factory Automation, Sinaia (Romania), 2023-09-12 -
2023-09-15 },
  doi = { 10.1109/ETFA54631.2023.10275713 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2023-09990 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/972078/files/972078.pdf },
  illkey = { DFG project 445866207 - Analyse von GRAFCET-Spezifikationen
zur Erkennung von Entwurfsfehlern (445866207) },
}

```

```

SBB+24,
  author = { Schoberer, Mark and Becker, Sabine and Buglowski, Mateusz
and Pfannschmidt, Valerie and Stollenwerk, André and Braun, Oliver and
H{"u}tten, Matthias Christian and Ophelders, Daan },
  title = { Ventilaton Data for anonymization evaluation },
  year = { 2024 },
  doi = { 10.18154/RWTH-2024-01150 },
  typ = { PUB:(DE-HGF)32 },
  reportid = { RWTH-2024-01150 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/978123/files/Rechteeinraeumung\_978123.pdf },
  illkey = { BMBF 13GW0292C - Innovatives Neonatologiebeatmungsger{"a"}t
mit adaptiver Anwenderunterst{"u"}tzung (NANNI) - Teilvorhaben: Erforschung
neuer Modelle zur Diagnose von Fehlerzust{"a"}nden (BMBF-13GW0292C) },
}

```

```

@phdthesis { Sch19,
  author = { Schommer, John },
  othercontributors = { Kowalewski, Stefan and Rumpe, Bernhard },
  title = { Adaptierung des Zeitverhaltens nicht-echtzeitf{"a"}higer
Software f{"u"}r den Einsatz in zeitheterogenen Netzwerken },
  school = { RWTH Aachen University },
  pages = { 1 Online-Ressource (xv, 177 Seiten) : Illustrationen,
Diagramme },
  series = { Aachener Informatik-Berichte },
  year = { 2019 },
  address = { Aachen },
  doi = { 10.18154/RWTH-2020-05324 },
  typ = { PUB:(DE-HGF)11 },
}

```

```
    reportid = { RWTH-2020-05324 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/789625/files/789625.pdf },
}

@inproceedings { SFK+09,
    author = { Schommer, John F. and Franke, Dominik and Kowalewski, Stefan
and Weise, Carsten },
    title = { Evaluation of the real-time Java runtime environment for
deployment in time-critical systems },
    booktitle = { 7th International Workshop on Java Technologies for Real-
Time and Embedded Systems : JTRES 09 ; Universidad Complutense de Madrid,
Facultad de Informatica, 23-25 September 2009, Madrid, Spain / Workshop
Chair: M. Teresa Higuera-Toledano ... },
    publisher = { Curran },
    pages = { 51-60 },
    series = { ACM international conference proceedings series },
    year = { 2009 },
    address = { Red Hook, NY },
    organization = { 7. International Workshop on Java Technologies for
Real-Time and Embedded Systems, Madrid (Spain), 2009-09-23 - 2009-09-25 },
    doi = { 10.1145/1620405.1620413 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-172370 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99404 },
}

@inproceedings { SFL+12,
    author = { Schommer, John F. and Franke, Dominik and Lange, Tim and
Kowalewski, Stefan },
    title = { Load Balancing for Cross Layer Communication },
    booktitle = { 2012 IEEE 36th Annual Computer Software and Applications
Conference workshops (COMPSACW 2012) : Izmir, Turkey, 16 - 20 July 2012 /
[sponsored by IEEE; IEEE Computer Society. Ed.: Xiaoying Bai ...] },
    publisher = { IEEE },
    pages = { 476-481 },
    year = { 2012 },
    address = { Piscataway, NJ },
    organization = { 2012 IEEE 36th Annual Computer Software and
Applications Conference workshops, Izmir (Turkey), 2012-07-16 - 2012-07-20
},
    doi = { 10.1109/COMPSACW.2012.90 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-204446 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/227070 },
}

@inproceedings { SGK13,
```

```

    author = { Schommer, John F. and Gerlitz, Thomas and Kowalewski, Stefan
},
    title = { Load and Quality Cooperation for Distributed Embedded Systems
Using Different Modes of Operation },
    booktitle = { Proceedings of the 7th Junior Researcher Workshop on
Real-Time Computing : JRWRTC 2013 ; Sophia Antipolis, France, October 16-18,
2013 },
    pages = { 45-48 },
    year = { 2013 },
    address = { Sophia Antipolis, France },
    organization = { 7. Junior Researcher Workshop on Real-Time Computing,
Sophia Antipolis (France), 2013-10-16 - 2013-10-18 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-204855 },
    cin = { 120000 / 122810 },
    url = { http://jrwrtc.science.uva.nl/JRWRTC13_proceedings.pdf },
}

```

```

SBK13,
    author = { Schoonbrood, Pierre and Borchers, Jan Oliver and Kowalewski,
Stefan },
    title = { PowerSocket : implementation of a small-scale power
consumption measurement platform },
    school = { RWTH Aachen University },
    pages = { 84 Seiten },
    year = { 2013 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)2 },
    reportid = { RWTH-2016-10433 },
    cin = { 122710 / 120000 / 122810 },
    url = {
http://hci.rwth-aachen.de/materials/publications/schoonbrood2013.pdf },
}

```

```

@inproceedings { SWL+12,
    author = { Schumacher, Christoph and Weinstock, Jan Henrik and Leupers,
Rainer and Ascheid, Gerd },
    title = { SCanal: SystemC analysis for nondeterminism anomalies },
    booktitle = { Forum on Specification and Design Languages (FDL), 18-20
Sept. 2012 in Vienna },
    publisher = { IEEE },
    pages = { 112-119 },
    year = { 2012 },
    address = { Piscataway, NJ },
    organization = { Forum on Specification and Design Languages, Vienna
(Austria), 18-09-2012 - 20-09-2012 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-199946 },
    cin = { 120000 / 122810 / 611910 },
    url = { http://publications.rwth-aachen.de/record/197739 },
}

```

```
@inproceedings { SAC+15,  
  author = { Schupp, Stefan and Ábrahám, Erika and Chen, Xin and Ben  
Makhlouf, Ibtissem and Frehse, Goran and Sankaranarayanan, Sriram and  
Kowalewski, Stefan },  
  title = { Current Challenges in the Verification of Hybrid Systems },  
  booktitle = { Cyber physical systems : design, modeling, and evaluation  
; 5th international workshop, CyPhy 2015, Amsterdam, The Netherlands,  
October 8, 2015 ; proceedings / Christian Berger ... (eds.) },  
  publisher = { Springer International Publishing },  
  pages = { 8-24 },  
  series = { Lecture Notes in Computer Science },  
  year = { 2015 },  
  address = { Cham },  
  organization = { 5. Workshop on Design, Modeling, and Evaluation of  
Cyber Physical Systems, Amsterdam (Netherlands), 2015-10-08 - 2015-10-08 },  
  doi = { 10.1007/978-3-319-25141-7_2 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2015-07355 },  
  cin = { 121310 / 120000 / 123420 / 121330 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/564375 },  
}
```

```
@inproceedings { SAB+17,  
  author = { Schupp, Stefan and Ábrahám, Erika and Ben Makhlouf, Ibtissem  
and Kowalewski, Stefan },  
  title = { HyPro : A C++ Library of State Set Representations for Hybrid  
Systems Reachability Analysis },  
  booktitle = { NASA formal methods : 9th international symposium, NFM  
2017, Moffett Field, CA, USA, May 16-18, 2017 : proceedings / Clark Barrett,  
Misty Davies, Temesghen Kahsai (eds.) },  
  publisher = { Springer },  
  pages = { 288-294 },  
  series = { Lecture Notes in Computer Science },  
  year = { 2017 },  
  address = { Cham },  
  organization = { NASA Formal Methods (NFM) Symposium, Moffett Field, CA  
(USA), 2017-05-16 - 2017-05-18 },  
  doi = { 10.1007/978-3-319-57288-8_20 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2017-06600 },  
  cin = { 123420 / 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/696076 },  
}
```

```
@inproceedings { SGT+18,  
  author = { Schweigler, Martin and Grochowski, Marco and Tamrakar, Sujan  
and Kowalewski, Stefan },  
  title = { Ground Surface Pattern Recognition with Hidden Markov Models  
for Low Cost Positioning Improvement },  
  booktitle = { 8th International Conference on Pattern Recognition  
Systems (ICPRS 2017) : 11-13 July 2017 },
```

```
publisher = { IET },
pages = { 1-6 },
year = { 2018 },
address = { [Stevenage] },
organization = { 8. International Conference of Pattern Recognition
Systems, Madrid (Spain), 2017-07-11 - 2017-07-13 },
doi = { 10.1049/cp.2017.0166 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236283 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752258 },
}

@phdthesis { Sch21,
author = { Schweigler, Martin },
othercontributors = { Kowalewski, Stefan and Abel, Dirk },
title = { Ground surface pattern recognition for enhanced navigation },
publisher = { RWTH Aachen University },
school = { RWTH Aachen University },
pages = { 1 Online-Ressource : Illustrationen, Diagramme, Karten },
series = { Aachener Informatik-Berichte },
year = { 2021 },
address = { Aachen },
doi = { 10.18154/RWTH-2021-05828 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2021-05828 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/820793/files/820793.pdf },
}

@inproceedings { SG94,
author = { Sedlacek, Gerhard and Grotmann, Dietmar },
title = { Stability aspects for hollow section columns, beams and beam-
columns },
booktitle = { Tubular structures VI : proceedings sixth International
Symposium on Tubular Structures, Melbourne, Australia, 14 - 16 December 1994
/ ed. by Paul Grundy ... },
publisher = { Balkema },
pages = { 151-158 },
year = { 1994 },
address = { Rotterdam [u.a.] },
organization = { 6. International Symposium on Tubular Structures,
Melbourne (Australia), 1994-12-14 - 1994-12-16 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-193706 },
cin = { 311710 / 122810533000-2 / 120000 },
url = { http://publications.rwth-aachen.de/record/122810 },
}

@inproceedings { SA11,
```

```
    author = { Senst, Martin and Ascheid, Gerd },
    title = { A combined belief propagation and mean field algorithm for
soft carrier phase estimation },
    booktitle = { 2011 8th International Symposium on Wireless
Communication Systems (ISWCS 2011) : Aachen, Germany, 6 - 9 November 2011 /
IEEE },
    publisher = { IEEE },
    pages = { 512-516 },
    year = { 2011 },
    address = { Piscataway, NJ },
    organization = { 8. International Symposium on Wireless Communication
Systems, Aachen (Germany), 2011-11-06 - 2011-11-09 },
    doi = { 10.1109/ISWCS.2011.6125359 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-195649 },
    cin = { 080006 / 122810 / 611810 / 080004 / 120000 },
    url = { http://publications.rwth-aachen.de/record/125111 },
}
```

```
@inproceedings { SWS+12,
    author = { Sheng, Weihua and Wiebe, Artur and Stulova, Anastasia and
Leupers, Rainer and Kienhuis, Bart and Walters, Johan and Ascheid, Gerd },
    title = { FIFO Exploration in Mapping Streaming Applications onto the
TI OMAP3530 Platform: Case Study and Optimizations },
    booktitle = { IEEE 6th International Symposium on Embedded Multicore
SoCs (MCSoc-12), 20-22 Sept. 2012 in Aizu-Wakamatsu },
    publisher = { IEEE },
    pages = { 51-58 },
    year = { 2012 },
    organization = { IEEE 6. International Symposium on Embedded Multicore,
Aizu-Wakamatsu (Japan), 2012-09-20 - 2012-09-22 },
    doi = { 10.1109/MCSoc.2012.15 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-200151 },
    cin = { 122810 / 611910 / 120000 },
    url = { http://publications.rwth-aachen.de/record/197980 },
}
```

```
@inproceedings { SFB+15,
    author = { Simon, Hendrik and Friedrich, Nico and Biallas, Sebastian
and Hauck-Stattelmann, Stefan and Schlich, Bastian and Kowalewski, Stefan },
    title = { Automatic test case generation for PLC programs using
coverage metrics },
    booktitle = { 2015 IEEE 20th Conference on Emerging Technologies
Factory Automation (ETFA) : 8 - 11 Sept. 2015, City of Luxembourg,
Luxembourg / co-sponsored by IEEE ... },
    publisher = { IEEE },
    pages = { 4 S. },
    year = { 2015 },
    address = { Piscataway, NJ },
    organization = { 2015 IEEE 20th Conference on Emerging Technologies
```

```
Factory Automation, Luxembourg (Luxembourg), 2015-09-08 - 2015-09-11 },
  doi = { 10.1109/ETFA.2015.7301602 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2015-07849 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/565382 },
}

@inproceedings { SK16,
  author = { Simon, Hendrik and Kowalewski, Stefan },
  title = { Static Analysis of Sequential Function Charts using Abstract Interpretation },
  booktitle = { 2016 IEEE 21st International Conference on Emerging Technologies and Factory Automation (ETFA) : September 6-9, 2016 Berlin, Germany / IEEE, IES, Fraunhofer IOSB-INA, InIT },
  publisher = { IEEE },
  pages = { 1-4 },
  year = { 2016 },
  address = { Piscataway, NJ },
  organization = { 21. International Conference on Emerging Technologies and Factory Automation, Berlin (Germany), 2016-09-06 - 2016-09-09 },
  doi = { 10.1109/ETFA.2016.7733648 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12029 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680846 },
}

@inproceedings { SK18,
  author = { Simon, Hendrik and Kowalewski, Stefan },
  title = { Mode-Aware Concolic Testing for PLC Software },
  booktitle = { Integrated formal methods : 14th International Conference, IFM 2018, Maynooth, Ireland, September 5-7, 2018 : proceedings / Carlo A. Furia, Kirsten Winter (eds.) },
  publisher = { Springer },
  pages = { 367-376 },
  series = { Lecture notes in computer science },
  year = { 2018 },
  address = { Cham },
  organization = { 14. International Conference on Integrated Formal Methods, Maynooth (Ireland), 2018-09-05 - 2018-09-07 },
  doi = { 10.1007/978-3-319-98938-9_21 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236289 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752259 },
}

@article { STK18,
  author = { Simon, Hendrik and Triefenbach, Lucas and Kowalewski, Stefan },
```

```

    title = { Structural Concolic Testing for Sequential Function Chart },
    journal = { IFAC-PapersOnLine },
    publisher = { Elsevier },
    pages = { 422-427 },
    volume = { 51 },
    number = { 7 },
    year = { 2018 },
    address = { Frankfurt ; M{"u"}nchen [u.a.] },
    issn = { 2405-8963 },
    organization = { 14. IFAC Workshop on Discrete Event Systems,
Castellammare di Stabia (Italy), 2018-05-30 - 2018-06-01 },
    doi = { 10.1016/j.ifacol.2018.06.335 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-236291 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752265 },
}

```

```

@phdthesis { Sim23,
    author = { Simon, Hendrik },
    othercontributors = { Kowalewski, Stefan and Weyrich, Michael },
    title = { Automatic test Case generation for PLC software },
    publisher = { RWTH Aachen University },
    school = { RWTH Aachen University },
    pages = { 1 Online-Ressource : Illustrationen },
    series = { Aachener Informatik-Berichte (AIB) },
    year = { 2023 },
    address = { Aachen },
    doi = { 10.18154/RWTH-2023-08196 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2023-08196 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/964231/files/964231.pdf },
}

```

```

@inproceedings { SSJ+16,
    author = { Smieschek, Manfred and Stollenwerk, André and J{"u"}ptner,
Johann Patrick and Kowalewski, Stefan and Orlikowsky, Thorsten and
Schoberer, Mark },
    title = { Evaluating Hand Disinfection with Alcohol-Based Hand
Sanitizers Using Thermal Imaging },
    booktitle = { [Gemeinsamer Tagungsband der Workshops der Tagung
Software Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 / Edited
by: Wolf Zimmermann, Lukas Alperowitz, Bernd Br{"u"}gge, J{"o"}rn Fahsel,
Andrea Herrmann, Anne Hoffmann, Andreas Krall, Dieter Landes, Horst Lichter,
Dirk Riehle, Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer,
Sibylle Schupp, Andreas Seitz, Andreas Steffens, André Stollenwerk,
R{"u"}diger Wei{"ss"}bach] },
    publisher = { RWTH Aachen },
    pages = { 174-181 },
}

```

```

series = { CEUR Workshop Proceedings },
year = { 2016 },
address = { Aachen, Germany },
organization = { 2. Workshop on Fail Safety in Medical Cyber-Physical
Systems, Wien (Austria), 2016-02-26 - 2016-02-26 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-207900 },
cin = { 122810 / 120000537500-3 },
url = { http://ceur-ws.org/Vol-1559/paper23.pdf },
}

@inproceedings { SHS+18,
author = { Smieschek, Manfred and Hinrichs, Timo and Stollenwerk, André
and Kowalewski, Stefan and Preu{\ss}, R{"u}diger },
title = { A New Condition Indicator for Slow-Rotating Roller Chains
based on the Angle and Torque of the Driving Motor },
booktitle = { 2018 IEEE 14th International Conference on Automation
Science and Engineering (CASE) : 20-24 Aug. 2018 / general chair: Birgit
Vogel-Heuser (Technical University of Munich) ; publisher: IEEE },
publisher = { IEEE },
pages = { 642-644 },
year = { 2018 },
address = { Piscataway, NJ },
organization = { IEEE 14. International Conference on Automation
Science and Engineering, Munich (Germany), 2018-08-20 - 2018-08-24 },
doi = { 10.1109/COASE.2018.8560542 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236282 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752188 },
illkey = { 140DEMO - Industrie-4.0-Testbeds - Umsetzung von
Demonstratoren in realen Umgebungen und Evaluation mit Fokus auf
Standardisierung (I40Demo); Teilvorhaben: 'Use Case 2: Plug&Produce -
Feldger{"a"}tetausch im Betrieb' und 'Use Case 4: Predictive Maintenance' },
}

@inproceedings { SSK+17,
author = { Smieschek, Manfred and Stollenwerk, André and Kowalewski,
Stefan and Orlikowsky, Thorsten and Schoberer, Mark },
title = { Unterst{"u"}tzte Handerkennung in Thermographiebildern zur
Validierung der hygienischen H{"a"}ndedesinfektion },
booktitle = { Bildverarbeitung f{"u"}r die Medizin 2017 : Algorithmen -
Systeme - Anwendungen : Proceedings des Workshops vom 12. bis 14. M{"a"}rz
2017 in Heidelberg / Klaus Hermann Maier-Hein, Thomas M. Deserno, Heinz
Handels, Thomas Tolxdorff (Herausgeber) },
publisher = { Springer Berlin Heidelberg },
pages = { 147-152 },
series = { Informatik aktuell },
year = { 2017 },
address = { Berlin, Heidelberg },
organization = { Bildverarbeitung f{"u"}r die Medizin 2017 :

```

Algorithmen - Systeme - Anwendungen, Heidelberg (Germany), 2017-03-12 - 2017-03-14 },

doi = { 10.1007/978-3-662-54345-0_35 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-CONV-236348 },

cin = { 122810 / 120000537500-3 },

url = { <http://publications.rwth-aachen.de/record/752321> },

}

@inproceedings { SKS+19,

author = { Smieschek, Manfred and Kobsik, Gregor and Stollenwerk, André and Kowalewski, Stefan and Orlikowsky, Thorsten and Schoberer, Mark },

title = { Aided Hand Detection in Thermal Imaging Using RGB Stereo Vision },

booktitle = { Biomedical engineering ranging from wellness to intensive care : 2019 41st Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) : 41st EMB Conference : July 23-27, Berlin / IEEE, EMB ; conference editorial board chair: Riccardo Barbieri, Milan, Italy },

publisher = { IEEE },

pages = { 6314-6317 },

year = { 2019 },

address = { Piscataway, NJ },

organization = { 41. Annual International Conference of the IEEE Engineering in Medicine & Biology Society, Berlin (Germany), 2019-07-23 - 2019-07-27 },

doi = { 10.1109/EMBC.2019.8856990 },

typ = { PUB:(DE-HGF)7 },

reportid = { RWTH-2019-09705 },

cin = { 122810 / 120000537500-3 },

url = { <http://publications.rwth-aachen.de/record/770752> },

}

@inproceedings { SRT+20,

author = { Smieschek, Manfred and Rakel, Stefan and Th{\o}nnessen, David and Derks, Andreas and Stollenwerk, André and Kowalewski, Stefan },

title = { A Remote Test Environment for a Large-Scale Microcontroller Laboratory Course },

booktitle = { Cyber physical systems : model-based design : 9th international workshop, CyPhy 2019 and 15th international workshop, WESE 2019, New York City, NY, USA, October 17-18, 2019 : revised selected papers / Roger Chamberlain, Martin Edin Grimheden, Walid Taha (eds.) },

publisher = { Springer },

pages = { 231-246 },

series = { Lecture Notes in Computer Science },

year = { 2020 },

address = { Cham },

organization = { Workshop on Embedded Systems and Cyber-Physical Systems Education, New York (USA), 2019-10-17 - 2019-10-18 },

doi = { 10.1007/978-3-030-41131-2_11 },

typ = { PUB:(DE-HGF)7 },

```
    reportid = { RWTH-2020-02344 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/783169/files/Remote%20Pool%20Final
.pdf },
}
```

```
@article { SOS23,
    author = { Smirnov, Ivan and Oprea, Camelia and Strohmaier, Markus },
    title = { Toxic comments are associated with reduced activity of
volunteer editors on Wikipedia },
    journal = { PNAS nexus },
    publisher = { Oxford University Press },
    pages = { 1-10 },
    volume = { 2 },
    number = { 12 },
    year = { 2023 },
    address = { Oxford },
    issn = { 2752-6542 },
    doi = { 10.1093/pnasnexus/pgad385 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2024-02967 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/981365/files/981365.pdf },
}
```

```
@inproceedings { SBS+14,
    author = { Stattelmann, Stefan and Biallas, Sebastian and Schlich,
Bastian and Kowalewski, Stefan },
    title = { Applying Static Code Analysis on Industrial Controller Code
},
    booktitle = { 2014 IEEE [International Conference on] Emerging
Technologies and Factory Automation (ETFA 2014) : Barcelona, Spain, 16 - 19
September 2014 / [co-sponsored by Universitat Politècnica de Catalunya -
Barcelona Tech (UPC); IEEE Industrial Electronics Society] },
    publisher = { IEEE },
    pages = { 4 Seiten },
    year = { 2014 },
    address = { Piscataway, NJ },
    organization = { 2014 IEEE [International Conference on] Emerging
Technologies and Factory Automation, Barcelona (Spain), 2014-09-16 -
2014-09-19 },
    doi = { 10.1109/ETFA.2014.7005254 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-206434 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/444619 },
}
```

```
@inproceedings { SGW+11,
```

```

    author = { Stollenwerk, André and G{"o}be, F. and Walter, Marian and
Arens, Jutta and Kopp, R{"u}dger and Kowalewski, Stefan },
    title = { Smart Data Provisioning for Model-Based Generated Code in an
Intensive Care Application },
    booktitle = { 3rd Joint Workshop On High Confidence Medical Devices,
Software, and Systems & Medical Device Plug-and-Play Interoperability :
HCMDSS/MDPnP 2011 ; in conjunction with CPSweek 2011 ; April 11, 2011
Chicago, USA },
    publisher = { HCMDSS/MDPnP 2011 ; in conjunction with CPSweek 2011 ;
April 11, 2011 Chicago, USA },
    pages = { 8 S. },
    year = { 2011 },
    address = { Chicago },
    organization = { 3. Joint Workshop On High Confidence Medical Devices,
Software, and Systems & Medical Device Plug-and-Play Interoperability,
Chicago (USA), 2011-04-11 - 2011-04-11 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-006017 },
    cin = { 611010 / 122810 / 120000 },
    url = {
http://www.seas.upenn.edu/~rahulm/Shared/HCMDSS/hcmdss11_aachen.pdf },
}

@inproceedings { SJK09,
    author = { Stollenwerk, André and Jongdee, Chate and Kowalewski, Stefan
},
    title = { An undergraduate embedded software laboratory for the masses
},
    booktitle = { Workshop on Embedded Systems Education (WESE09),
Grenoble, France },
    publisher = { ACM },
    pages = { 34-41 },
    year = { 2009 },
    address = { Grenoble, France },
    organization = { Workshop on Embedded Systems Education, Grenoble
(France) },
    doi = { 10.1145/1719010.1719017 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173254 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/100434 },
}

@inproceedings { SLW+10,
    author = { Stollenwerk, André and Lang, Martin and Walter, Marian and
Arens, Jutta and Kopp, R{"u}dger and Kowalewski, Stefan },
    title = { Sicherheitskonzept f{"u}r eine intensivmedizinische
Anwendung am Beispiel der EMC0 },
    booktitle = { Entwurf komplexer Automatisierungssysteme : EKA 2010 ;
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 11. Fachtagung
mit Tutorium, 25. bis 27. Mai 2010 in Magdeburg, Denkfabrik im

```

```
Wissenschaftshafen / ifak, Institut f{"u}r Automation und Kommunikation
e.V., Magdeburg; Otto-von-Guericke-Universit{"a}t Magdeburg, Institut
f{"u}r Automatisierungstechnik. [Hrsg.: Ulrich Jumar, Eckehard Schnieder,
Christian Diedrich] },
    publisher = { ifak },
    pages = { 65-74 },
    year = { 2010 },
    address = { Magdeburg },
    organization = { Entwurf komplexer Automatisierungssysteme : EKA 2010 ;
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 11. Fachtagung
mit Tutorium, Magdeburg (Germany), 2010-05-25 - 2010-05-27 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-190268 },
    cin = { 611010 / 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/119102 },
}

@inproceedings { SDK10,
    author = { Stollenwerk, André and Derks, Andreas and Kowalewski, Stefan
},
    title = { A Modular, Robust and Open Source Microcontroller Platform },
    booktitle = { Proceedings / 2010 Workshop on Embedded Systems Education
: WESE 2010 ; Scottsdale, AZ, USA, October 28th, 2010 / Eds.: Peter Marwedel
... },
    publisher = { ACM },
    pages = { 48-54 },
    year = { 2010 },
    address = { New York, NY },
    organization = { 2010 Workshop on Embedded Systems Education,
Scottsdale, AZ (USA), 2010-10-28 - 2010-10-28 },
    doi = { 10.1145/1930277.1930285 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-190509 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/119371 },
}

@article { SWW+09,
    author = { Stollenwerk, André and Walter, Marian and Wartzek, Tobias
and Kopp, R{"u}dger and Arens, Jutta and Kowalewski, Stefan },
    title = { A safety and control concept for extracorporeal membrane
oxygenation },
    journal = { The international journal of artificial organs },
    publisher = { Wichtig Ed. },
    pages = { 428-428 },
    volume = { 32 },
    number = { 7 },
    year = { 2009 },
    address = { Milano [u.a.] },
    issn = { 0391-3988 },
    typ = { PUB:(DE-HGF)16 },
```

```
    reportid = { RWTH-CONV-013747 },
    cin = { 122810533000-2 / 611010811001-1 / 120000 },
    url = {
http://www.artificial-organs.com/public/IJA0/Article/Article.aspx?UidArticle
=B21049FA-B9E6-4AF6-96BC-F3AAEB904F59 },
}

@inproceedings { SGA+11,
    author = { Stollenwerk, André and Gathmann, Felix and Arens, Jutta and
Bensberg, Ralf and Walter, Marian and Kopp, R{"u}dger and Kowalewski,
Stefan },
    title = { Safety Aware Pump-Control for a Rotary ECMO Blood Pump },
    booktitle = { The international journal of artificial organs },
    publisher = { Wichtig },
    pages = { 617-617 },
    volume = { 34 },
    number = { 8 },
    year = { 2011 },
    address = { Milano [u.a.] },
    issn = { 0391-3988 },
    organization = { XXXVIII Annual ESAO, Porto (Portugal), 2011-10-09 -
2011-10-12 },
    doi = { 10.5301/IJA0.2011.8701 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-002194 },
    cin = { 120000 / 122810 / 611010 },
    url = { http://publications.rwth-aachen.de/record/135553 },
}

@inproceedings { SJA+10,
    author = { Stollenwerk, André and J{"o}rgens, J{"o}rg and Arens,
Jutta and Walter, Marian and Kopp, R{"u}dger and Kowalewski, Stefan },
    title = { Model Based Diagnosis for Extracorporeal Membrane Oxygenation
},
    booktitle = { The international journal of artificial organs },
    publisher = { Wichtig Ed. },
    pages = { 447-447 },
    volume = { 33 },
    number = { 7 },
    year = { 2010 },
    address = { Milano [u.a.] },
    issn = { 0391-3988 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-003744 },
    cin = { 122810533000-2 / 611010811001-1 / 120000 },
    url = { http://publications.rwth-aachen.de/record/169676 },
}

@article { SJW+10,
    author = { Stollenwerk, André and J{"o}rgens, J{"o}rg and Walter,
Marian and Arens, Jutta and Kopp, R{"u}dger and Kowalewski, Stefan },
```

```
title = { Modellbasierte Fehlerdiagnose eines Membranoxygenators },
journal = { Proceedings : Jahrestagung der Deutschen Gesellschaft
f{"u}r Biomedizinische Technik (DGBMT) im VDE },
publisher = { de Gruyter },
pages = { 174-177 },
volume = { 55 },
number = { S 1 },
year = { 2010 },
address = { Berlin [u.a.] },
issn = { 0939-4990 },
doi = { 10.515/BMT.2010.713 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-047243 },
cin = { 611010 / 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/169679 },
}
```

```
@article { SGB+11,
author = { Stollenwerk, André and Gathmann, Felix and Bensberg, Ralf
and Walter, Marian and Arens, Jutta and Kopp, R{"u}dger and Kowalewski,
Stefan },
title = { A model-based safety concept for a rotary blood pump },
journal = { Biomedizinische Technik = Biomedical engineering },
publisher = { de Gruyter },
volume = { 56 },
number = { S1 },
year = { 2011 },
address = { Berlin [u.a.] },
issn = { 0013-5585 },
organization = { 45. Jahrestagung der Deutschen Gesellschaft f{"u}r
Biomedizinische Technik, Freiburg (Germany), 2011-09-27 - 2011-09-30 },
doi = { 10.1515/BMT.2011.379 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-067756 },
cin = { 120000 / 122810 / 611010 },
url = { http://publications.rwth-aachen.de/record/192011 },
}
```

```
@phdthesis { Sto13,
author = { Stollenwerk, André },
othercontributors = { Kowalewski, Stefan },
title = { Ein modellbasiertes Sicherheitskonzept f{"u}r die
extrakorporale Lungenunterst{"u}tzung },
publisher = { Shaker },
pages = { XX, 183 S. : Ill., graph. Darst. },
series = { Aachener Informatik-Berichte },
year = { 2013 },
address = { Aachen },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-CONV-144193 },
cin = { 120000 / 122810 },
}
```

```

    url = { http://publications.rwth-aachen.de/record/229222/files/4764.pdf
  },
}

```

```

@inproceedings { SKB+14,
  author = { Stollenwerk, André and K{"u}hn, Jan and Brendle, Christian
and Walter, Marian and Arens, Jutta and Wardeh, Markus Nabil and Kowalewski,
Stefan and Kopp, R{"u}dger },
  title = { Model-based supervision of a blood pump },
  booktitle = { Proceedings of the 19th World Congress of the
International Federation of Automatic Control, Cape Town, South Africa,
2014, 24-29 August 2014 : Promoting automatic control for the benefit of
humankind },
  publisher = { IFAC },
  pages = { 6593-6598 },
  series = { IFAC-PapersOnLine },
  year = { 2014 },
  address = { Laxenburg },
  organization = { 19. World Congress of the International-Federation-of-
Automatic-Control, Cape Town (South Africa), 2014-08-24 - 2014-08-29 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-205733 },
  cin = { 120000 / 122810 },
  url = { http://publications.embedded.rwth-aachen.de/file/5d },
  illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

```

```

@inproceedings { SKW+15,
  author = { Stollenwerk, André and K{"u}hn, Jan and Walter, Marian and
Brendle, Christian and Wardeh, Markus Nabil and Rossaint, Rolf and
Leonhardt, Steffen and Kowalewski, Stefan and Kopp, R{"u}dger },
  title = { Software-based Prediction of Cannula Occlusion during
Extracorporeal Blood Circulation through Networked Medical Data },
  booktitle = { SE-WS 2015, software engineering workshops 2015 :
gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2015,
Dresden, 17. - 18. M{"a"}rz 2015 / hrsg. von Wolg Zimmermann ... },
  publisher = { RWTH Aachen },
  pages = { 1-6 },
  series = { CEUR workshop proceedings },
  year = { 2015 },
  address = { Aachen, Germany },
  organization = { Software Engineering 2015, Dresden (Germany),
2015-03-17 - 2015-03-18 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2015-01764 },
  cin = { 611010 / 122810533000-2 / 120000 },
  url = { http://nbn-resolving.de/urn:nbn:de:0074-1337-4 },
  illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie

```

```
des Lungenversagens (ECLA-VENT) (224967929) },
}
```

```
@inproceedings { SLR+15,
  author = { Stollenwerk, André and Leonhardt, Steffen and Rossaint, Rolf
and Kowalewski, Stefan },
  title = { Advancing Intensive Care by Networked Medical Systems },
  booktitle = { [Proceedings of the 11th German-Russian-Conference on
Biomedical Engineering, GRC, 17.06.2015-19.06.2015, Aachen, Germany] },
  pages = { 211-213 },
  year = { 2015 },
  organization = { 11. German-Russian-Conference on Biomedical
Engineering, Aachen (Germany), 2015-06-17 - 2015-06-19 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2015-07470 },
  cin = { 611010533000-2 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/564787 },
}
```

```
@article { SKS+17,
  author = { Stollenwerk, André and Kopp, R{"u}dger and Sehl, Florian
and Janisch, Thorsten },
  title = { Tauchcomputerunterst{"u}tzung durch vernetzte Smart
Wearables },
  journal = { Caisson : Mitteilungen der GT{"U"}M e.V. },
  publisher = { GT{"U"}M },
  volume = { 32 },
  number = { 4 },
  year = { 2017 },
  address = { Murnau },
  issn = { 0933-3991 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2018-00117 },
  cin = { 122810 / 9210120 / 120000533000-3 },
  url = { https://www.publications.embedded.rwth-aachen.de/file/79 },
}
```

```
@inproceedings { SSM+17,
  author = { Stollenwerk, André and Sehl, Florian and Marx, Gernot and
Kowalewski, Stefan and Janisch, Thorsten },
  title = { Enrichment of a diving computer with body sensor network data
},
  booktitle = { 2017 IEEE 14th International Conference on Wearable and
Implantable Body Sensor Networks (BSN) : 9-12 May 2017 / sponsors: IEEE, EMB
},
  publisher = { IEEE },
  pages = { 169-172 },
  year = { 2017 },
  address = { Piscataway, NJ },
  organization = { IEEE 14. International Conference on Wearable and
Implantable Body Sensor Networks, Eindhoven (Netherlands), 2017-05-09 -
```

```
2017-05-12 },
  doi = { 10.1109/BSN.2017.7936034 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2018-221262 },
  cin = { 122810 / 120000533000-3 },
  url = { http://publications.rwth-aachen.de/record/717241 },
}

@article { SBK18,
  author = { Stollenwerk, André and Bugłowski, Mateusz and K{"u}hn, Jan },
  title = { Mock loop for bubble generation in a centrifugal blood pump for fault simulation },
  journal = { Current Directions in Biomedical Engineering },
  publisher = { de Gruyter },
  pages = { 33-36 },
  volume = { 4 },
  number = { 1 },
  year = { 2018 },
  address = { Berlin },
  issn = { 2364-5504 },
  doi = { 10.1515/cdbme-2018-0009 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-236285 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/752262/files/752262.pdf },
}

@conference { SL09,
  author = { Stollenwerk, André and Lang, Martin },
  title = { Embedded Contributions to an Intensive Care Safety Concept },
  booktitle = { ArtistDesign Workshop on Embedded Systems in Healthcare, Eindhoven - The Netherlands },
  year = { 2009 },
  typ = { PUB:(DE-HGF)5 },
  reportid = { RWTH-CONV-236341 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752314 },
}

@inproceedings { Sto20,
  author = { Stollenwerk, André },
  title = { An Embedded Graduate Lab Course with Spirit },
  booktitle = { Cyber physical systems : model-based design : 9th international workshop, CyPhy 2019 and 15th international workshop, WESE 2019, New York City, NY, USA, October 17-18, 2019 : revised selected papers / Roger Chamberlain, Martin Edin Grimheden, Walid Taha (eds.) },
  publisher = { Springer },
  pages = { 247-263 },
  series = { Lecture Notes in Computer Science },
```

```
year = { 2020 },
address = { Cham },
organization = { Workshop on Embedded Systems and Cyber-Physical
Systems Education, New York (USA), 2019-10-17 - 2019-10-18 },
doi = { 10.1007/978-3-030-41131-2_12 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2020-02343 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/783168/files/783168.pdf },
}

@techreport { SS20,
author = { Stollenwerk, André and Smieschek, Manfred },
title = { Eingabe und {\U}bertragung von Instandhaltungsinformationen
f{\u}r das Condition Monitoring - Digitalisierung von Offline-Informationen
},
publisher = { VDI / Beuth },
volume = { VDI/VDE 3711 },
number = { VDI/VDE 3711 },
series = { VDI-Richtlinien },
year = { 2020 },
address = { D{\u}sseldorf / Berlin },
typ = { PUB:(DE-HGF)29 },
reportid = { RWTH-2020-09299 },
cin = { 122810 / 120000 },
url = {
https://www.vdi.de/richtlinien/details/vdivde-3711-eingabe-und-uebertragung-
von-instandhaltungsinformationen-fuer-das-condition-monitoring-
digitalisierung-von-offline-informationen },
illkey = { BMWi-03TNF001B - Industrie-4.0-Testbeds - Umsetzung von
Demonstratoren in realen Umgebungen und Evaluation mit Fokus auf
Standardisierung (I40Demo); Teilvorhaben: 'Use Case 2: Plug&Produce -
Feldger{\a}tetausch im Betrieb' und 'Use Case 4: Predictive Maintenance'
(BMWi-03TNF001B) },
}

SD23,
author = { Stollenwerk, André and Derks, Andreas },
title = { ASMO: a decentralized and verifiable interoperability
platform in intensive care },
year = { 2023 },
address = { Aachen },
doi = { 10.18154/RWTH-2023-00139 },
typ = { PUB:(DE-HGF)32 },
reportid = { RWTH-2023-00139 },
cin = { 122810 },
url = { https://git.rwth-aachen.de/informatik11/asmo-board/-/tags/V2.1
},
illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{\u}tzung und Beatmung f{\u}r die Therapie
```

```
des Lungenversagens (ECLA-VENT) (224967929) },
}
```

```
@phdthesis { Ter18,
  author = { Terber, Matthias },
  othercontributors = { Kowalewski, Stefan and Rumpe, Bernhard },
  title = { Real-world deployment and evaluation of synchronous
programming in reactive embedded systems },
  publisher = { RWTH Aachen University, Department of Computer Science },
  school = { RWTH Aachen University },
  pages = { 1 Online-Ressource (xvi, 134 Seiten) : Illustrationen },
  series = { Aachener Informatik-Berichte },
  year = { 2018 },
  address = { Aachen },
  doi = { 10.18154/RWTH-2018-230185 },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-2018-230185 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/749610/files/749610.pdf },
}
```

```
@article { TBG+09,
  author = { Thomas, Wolfgang and Bollue, Kai and G{"u"}ckel, Dominique
and Quir{\'o}s, Gustavo and Slaats, Michaela and Ummels, Michael },
  title = { DFG Research Training Group 'Algorithmic synthesis of
reactive and discrete-continuous systems (AlgoSyn)' },
  journal = { Information technology : it },
  publisher = { Oldenbourg },
  pages = { 222-230 },
  volume = { 51 },
  number = { 4 },
  year = { 2009 },
  address = { M{"u"}nchen },
  issn = { 0944-2774 },
  doi = { 10.1524/itit.2009.0545 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-013644 },
  cin = { 117220 / 122810 / 526610 / 416610 / 120000 / 110000 / 520000 },
  url = { http://publications.rwth-aachen.de/record/132535 },
}
```

```
@inproceedings { TRR+17,
  author = { Th{"o"}nnessen, David and Reinker, Niklas and Rakel, Stefan
and Kowalewski, Stefan },
  title = { A concept for PLC hardware-in-the-loop testing using an
extension of structured text },
  booktitle = { 2017 22nd IEEE International Conference on Emerging
Technologies and Factory Automation : September 12-15, 2017, Limassol,
Cyprus / ABB, IEEE, IES, University of Cyprus },
  publisher = { IEEE },
```

```
pages = { 8 Seiten },
year = { 2017 },
address = { Piscataway, NJ },
organization = { 22. IEEE International Conference on Emerging
Technologies and Factory Automation, Limassol (Cyprus), 2017-09-12 -
2017-09-15 },
doi = { 10.1109/ETFA.2017.8247580 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-223452 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/722218 },
}
```

```
@article { TK18,
author = { Th{\o}nnessen, David and Kowalewski, Stefan },
title = { Agiles Testen von cyber-physischen Produktionssystemen :
Einsatz von SPS-Sprachen zur Testfallbeschreibung },
journal = { Atp-Edition : automatisierungstechnische Praxis },
publisher = { DIV Dt. Industrieverl. },
pages = { 46-55 },
volume = { 60 },
number = { 3 },
year = { 2018 },
address = { M{\u}nchen },
issn = { 2364-3137 },
doi = { 10.17560/atp.v58i03.1917 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2018-225395 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/727012 },
}
```

```
@article { TRR+18,
author = { Th{\o}nnessen, David and Rakel, Stefan and Reinker, Niklas
and Kowalewski, Stefan },
title = { Matching Discrete Signals for Hardware-in-the-Loop-Testing of
PLCs },
journal = { IFAC-PapersOnLine },
pages = { 229-234 },
volume = { 51 },
number = { 10 },
year = { 2018 },
address = { Laxenburg },
issn = { 2405-8963 },
organization = { 3. IFAC Conference on Embedded Systems, Computational
Intelligence and Telematics in Control },
doi = { 10.1016/j.ifacol.2018.06.267 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2018-227582 },
cin = { 122810 / 110000 / 120000 },
url = { http://publications.rwth-aachen.de/record/731576 },
}
```

```
}

@techreport { TSN+16,
  author = { Th{\o}nnessen, David and Schweigler, Martin and Ney, Oliver
and Kugelmeier, Mirko },
  title = { Conveying system with an automatic tethering function },
  pages = { 1-7 },
  year = { 2016 },
  typ = { PUB:(DE-HGF)23 },
  reportid = { RWTH-CONV-236287 },
  url = {
https://worldwide.espacenet.com/patent/search?q=pn%3DUS20180081372A1 },
}

@inproceedings { TK18a,
  author = { Th{\o}nnessen, David and Kowalewski, Stefan },
  title = { Using PLC Programming Languages for Test-Case Specification
of Hardware-in-the-loop Tests },
  booktitle = { [Modellbasierte Entwicklung eingebetteter Systeme, MBEES
2018, 2018-04-16 - 2018-04-18, Hamburg, Germany] },
  publisher = { fortiss Technischer Bericht },
  pages = { 41-50 },
  year = { 2018 },
  organization = { Modellbasierte Entwicklung eingebetteter Systeme,
Hamburg (Germany), 2018-04-16 - 2018-04-18 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236290 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752269 },
}

@inproceedings { TRR+18a,
  author = { Th{\o}nnessen, David and Reinker, Niklas and Rakel, Stefan
and Svetlakov, Andrei and Kowalewski, Stefan },
  title = { Correctness Properties and Exemplified Applicability of a
Signal Matching Algorithm with Multidimensional Tolerance Specifications },
  booktitle = { 2018 IEEE 14th International Conference on Automation
Science and Engineering (CASE) : 20-24 Aug. 2018 / general chair: Birgit
Vogel-Heuser (Technical University of Munich) ; publisher: IEEE },
  publisher = { IEEE },
  pages = { 1197-1202 },
  year = { 2018 },
  address = { Piscataway, NJ },
  organization = { IEEE 14. International Conference on Automation
Science and Engineering, Munich (Germany), 2018-08-20 - 2018-08-24 },
  doi = { 10.1109/COASE.2018.8560407 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2019-00319 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/752982/files/752982.pdf },
}
```

```
}

@inproceedings { TSF+19,
  author = { Th{\o}nnessen, David and Smallbone, Nick and Fabian, Martin
and Claessen, Koen and Kowalewski, Stefan },
  title = { Testing Safety PLCs Using QuickCheck },
  booktitle = { 2019 IEEE 15th International Conference on Automation
Science and Engineering : (CASE) : August 22-26, 2019, Vancouver, BC, Canada
/ sponsored by IEEE Robotics and Automation Society ; CASE editorial board:
editor-in-chief: Spiridon (Spyros) Reveliotis ; editors: Cappelleri, David;
Dimarogonas, Dimos V.; Dotoli, Mariagrazia; Fanti, Maria Pia; LUTZ,
Philippe; Seatzu, Carla; Xie, Xiaolan },
  publisher = { IEEE },
  pages = { 1388-1393 },
  year = { 2019 },
  address = { Piscataway, NJ },
  organization = { 15. International Conference on Automation Science and
Engineering, Vancouver, BC (Canada), 2019-08-22 - 2019-08-26 },
  doi = { 10.1109/COASE.2019.8843227 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2019-04632 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/761173 },
}

@phdthesis { Tho21,
  author = { Th{\o}nnessen, David },
  othercontributors = { Kowalewski, Stefan and Fabian, Martin },
  title = { Hardware-in-the-Loop testing of industrial automation systems
using PLC languages },
  publisher = { RWTH Aachen University },
  school = { RWTH Aachen University },
  pages = { 1 Online-Ressource : Illustrationen, Diagramme },
  series = { Achener Informatik-Berichte },
  year = { 2021 },
  address = { Aachen },
  doi = { 10.18154/RWTH-2021-08705 },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-2021-08705 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/826036/files/826036.pdf },
}

@inproceedings { TDB+23,
  author = { Trinh, Minh and Dammers, Hannah and Behery, Mohamed Anwar
Abdellatif and Baier, Ralph Oliver and Henn, Thomas and Gossen, Daniel and
Corves, Burkhard and Kowalewski, Stefan and Nitsch, Verena and Lakemeyer,
Gerhard and Gries, Thomas and Brecher, Christian },
  title = { Safety of Human-Robot Collaboration within the Internet of
Production },
```

```

booktitle = { HCI in Business, Government and Organizations : 10th
International Conference, HCIBGO 2023, Held as Part of the 25th HCI
International Conference, HCII 2023, Copenhagen, Denmark, July 23–28, 2023,
Proceedings, Part II / edited by Fiona Nah, Keng Siau },
publisher = { Springer Nature Switzerland },
pages = { 86-103 },
series = { Lecture Notes in Computer Science },
year = { 2023 },
address = { Cham },
organization = { HCI in Business, Government and Organizations : 10.
International Conference, Copenhagen (Denmark), 2023-07-23 - 2023-07-28 },
doi = { 10.1007/978-3-031-36049-7_7 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2023-07468 },
cin = { 417310 / 417200 / 419110 / 121920 / 417110 / 122810 / 411910 /
120000 / 080067 },
illkey = { DFG project 390621612 - EXC 2023: Internet of Production
(IoP) (390621612) },
}

```

```

@inproceedings { UVS+17,
author = { Ulewicz, Sebastian and Vogel-Heuser, Birgit and Simon,
Hendrik and Bohlender, Dimitri and Obster, Mathias and Kowalewski, Stefan },
title = { A priori test coverage estimation for automated production
systems : Using generated behavior models for coverage calculation },
booktitle = { 2017 22nd IEEE International Conference on Emerging
Technologies and Factory Automation : September 12-15, 2017, Limassol,
Cyprus / ABB, IEEE, IES, University of Cyprus },
publisher = { IEEE },
pages = { 4 Seiten },
year = { 2017 },
address = { Piscataway, NJ },
organization = { 22. IEEE International Conference on Emerging
Technologies and Factory Automation, Limassol (Cyprus), 2017-09-12 -
2017-09-15 },
doi = { 10.1109/ETFA.2017.8247704 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-223451 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/722217 },
}

```

```

@inproceedings { vLL+23,
author = { van Kempen, Raphael and Lampe, Bastian and Leuffen, Marc and
Wirtz, Lena and Thomsen, Fabian and Bilkei-Gorzo, Gergely and Busch, Jean-
Pierre and Feger, Ida and Geller, Christian and Kehl, Christian and
Uszynski, Olaf and Wagner-Douglas, Lotte and Zanger, Lukas and Eckstein,
Lutz and Kl{"u"}ner, David Philipp and Beerwerth, Julius and Alrifaae,
Bassam and Kowalewski, Stefan and Konersmann, Marco and Steinfurth, Felix
and Rumpe, Bernhard and Hartmann, Max and Siepenk{"o"}tter, Norbert and
Moormann, Dieter and B{"o"}hlen, Boris and Hannig, Claudia and Hekele,

```

Esther and Gotzig, Heinrich and Rostocki, Paul-David and Gautam, Deepak-Kumar and Schubert, Richard and Braun, Niklas and Maurer, Markus and Gemlau, Kai-Björn and Abel, Sebastian and Ernst, Rolf and Lutwitz, Melina and Bayerlein, Lorenz and Berghofer, Moritz and Blödel, Alexander and Klamann, Björn and Kuznietsov, Anton and Peters, Steven and Leinen, Stefan and Bahle, Jakob and Ullrich, Lars and Graichen, Knut and Woopen, Timo and Spychalski, Dominik and Krauß, Christoph and Alayan, Mohamad and Giesler, Jens and Lilienthal, Martin and Schulik, Thomas and Lauer, Martin and Fernandez, Carlos and Molinos, Eduardo and Le Large, Nick and Rack, Nils and Steiner, Marlon and Wang, Kaiwen and Stiller, Christoph and Arndt, Gideon and Schulz, Benedikt and Furmans, Kai and Rauber, Stephan and Diermeyer, Frank and Brecht, David and Gehrke, Nils and Lienkamp, Markus and Zimmer, Walter and Creß, Christian and Zhou, Xingcheng and Knoll, Alois and Püll, Dominik and Katzenbeisser, Stefan and Elmazi, Arlinda and Sailer, Andreas and Alfranseder, Martin and Mader, Ralph and Berkel, Felix and Specker, Thomas and Mayer, Philip and von Hasseln, Hermann and Jung, Lukas and Grandinetti, Marcel and Neidhart, Dominik and Greiner, Dan and Niedballa, Dennis and Zaheri, Dorsa and Maier, Jonas and Reuss, Hans-Christian and Afanasenko, Valentyna and Solomakha, Oleksandr and Roge, Swapnil Sunil and Kallfass, Ingmar and Buchholz, Michael and Dehler, Robin and Henning, Matti and Hermann, Charlotte and Schön, Markus and Dietmayer, Klaus },

```

    title = { AUTotech.agil : Architecture and Technologies for
Orchestrating Automotive Agility },
    booktitle = { 32nd Aachen Colloquium Sustainable Mobility 2023. Aachen,
October 09th to 11th, 2023 },
    publisher = { Aachener Kolloquium Fahrzeug- und Motorentechnik GbR },
    pages = { Paper No. 047, 48 Seiten },
    year = { 2023 },
    address = { Aachen },
    organization = { 32. Aachen Colloquium Sustainable Mobility, Aachen
(Germany), 2023-10-09 - 2023-10-11 },
    doi = { 10.18154/RWTH-2023-09783 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2023-09783 },
    cin = { 414110 / 122810 / 121510 / 415410 / 120000 },
    url = { https://www.aachener-kolloquium.de/de/ },
    illkey = { BMBF 01IS22088A - Verbundprojekt MANNHEIM-AUTotech.agil:
Architektur und Technologien zur Orchestrierung automobiltechnischer
Agilität (01IS22088A) },
}

```

```

@article { VDF+14,
    author = { Vogel-Heuser, Birgit and Diedrich, Christian and Fay,
Alexander and Jeschke, Sabina and Kowalewski, Stefan and Wollschlaeger,
Martin and Göhner, Peter },
    title = { Challenges for Software Engineering in Automation },
    journal = { Journal of software engineering and applications : JSEA },
    publisher = { Scientific Research Publ. },
    pages = { 440-451 },
    volume = { 7 },
}

```

```
number = { 5 },
year = { 2014 },
address = { Irvine, Calif. },
issn = { 1945-3116 },
doi = { 10.4236/jsea.2014.75041 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-083260 },
cin = { 051500 / 416910 / 023000 / 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/234400 },
}
```

```
@article { VK13,
  author = { Vogel-Heuser, Birgit and Kowalewski, Stefan },
  title = { Cyber-physical Systems },
  journal = { Automatisierungstechnik : at },
  publisher = { Oldenbourg },
  pages = { 667-668 },
  volume = { 61 },
  number = { 10 },
  year = { 2013 },
  address = { M{"u"}nchen },
  issn = { 0178-2312 },
  doi = { 10.1515/auto.2013.9010 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-085437 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/236678 },
}
```

```
@article { VKR+19,
  author = { V{"o"}lker, Marcus and Kloock, Maximilian Martin and
Rabanus, Leon and Alrifaae, Bassam and Kowalewski, Stefan },
  title = { Verification of Cooperative Vehicle Behavior using Temporal
Logic },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  pages = { 99-104 },
  volume = { 52 },
  number = { 8 },
  year = { 2019 },
  address = { Frankfurt ; M{"u"}nchen [u.a.] },
  issn = { 2405-8963 },
  organization = { 10. IFAC Symposium on Intelligent Autonomous Vehicles,
Gdansk (Poland), 2019-07-03 - 2019-07-05 },
  doi = { 10.1016/j.ifacol.2019.08.055 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2019-08318 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/766778 },
}
```

```
@inproceedings { VK19,  
  author = { V{"o}lker, Marcus and Kowalewski, Stefan },  
  title = { A Change-Based Heuristic for Static Analysis with Policy  
Iteration },  
  booktitle = { Static analysis : 26th international symposium, SAS 2019,  
Porto, Portugal, October 8-11, 2019 : proceedings / Bor-Yuh Evan Chang (ed.)  
},  
  publisher = { Springer },  
  pages = { 73-95 },  
  series = { Lecture notes in computer science },  
  year = { 2019 },  
  address = { Cham, Switzerland },  
  organization = { 26. International Static Analysis Symposium, Porto  
(Portugal), 2019-10-08 - 2019-10-11 },  
  doi = { 10.1007/978-3-030-32304-2_5 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2019-09500 },  
  cin = { 122810 / 120000 },  
  url = {  
http://publications.rwth-aachen.de/record/768806/files/768806.pdf },  
}
```

```
@phdthesis { Vol23,  
  author = { V{"o}lker, Marcus },  
  othercontributors = { Kowalewski, Stefan and Beckert, Bernhard },  
  title = { Policy iteration for value set analysis of PLC programs },  
  publisher = { RWTH Aachen University },  
  school = { RWTH Aachen University },  
  pages = { 1 Online-Ressource : Illustrationen, Diagramme },  
  series = { Achener Informatik-Berichte (AIB) },  
  year = { 2023 },  
  address = { Aachen },  
  doi = { 10.18154/RWTH-2023-04281 },  
  typ = { PUB:(DE-HGF)11 },  
  reportid = { RWTH-2023-04281 },  
  cin = { 122810 / 120000 },  
  url = {  
http://publications.rwth-aachen.de/record/956653/files/956653.pdf },  
}
```

```
@inproceedings { WLK+09,  
  author = { Walter, Marian and Leonhardt, Steffen and Kopp, R{"u}dger  
and Kashefi, Ali and Wartzek, Tobias and Stollenwerk, Andr{e} },  
  title = { Automation of long term extracorporeal oxygenation systems },  
  booktitle = { ECC 09 : Proceedings of the European Control Conference  
2009 ; the 10th in the EUCA Series ; 23-26 August 2009, Budapest, Hungary /  
General Chair: L{a}szl{o} Keviczky ... },  
  publisher = { EUCA },  
  year = { 2009 },  
  address = { Budapest },  
  organization = { European Control Conference 2009 ; the 10. in the EUCA
```

```
Series, Budapest (Hungary), 2009-08-23 - 2009-08-26 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-172394 },
  cin = { 120000 / 122810533000-3 / 611010811001-1 },
  url = { http://publications.rwth-aachen.de/record/99428 },
}

@inproceedings { WBB+12,
  author = { Walter, Marian and Brendle, Christian and Bensberg, Ralf and
Kopp, R{"u}dger and Arens, Jutta and Stollenwerk, Andr{e} and Leonhardt,
Steffen },
  title = { Closed loop physiological ECMO control },
  booktitle = { 5th European Conference of the International Federation
for Medical and Biological Engineering : 14 - 18 September 2011, Budapest,
Hungary ; [EMBEC] / {Akos Jobb{a}gy (ed.) },
  publisher = { Springer },
  pages = { 319-322 },
  series = { IFMBE Proceedings },
  year = { 2012 },
  address = { [Berlin] },
  organization = { 5. European Conference of the International Federation
for Medical and Biological Engineering, Budapest (Hungary), 2011-09-14 -
2011-09-18 },
  doi = { 10.1007/978-3-642-23508-5_83 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-191334 },
  cin = { 120000 / 122810 / 611010 },
  url = { http://publications.rwth-aachen.de/record/120299 },
}

@article { WLK+10,
  author = { Walter, Marian and Leonhardt, Steffen and Kopp, R{"u}dger
and Wartzek, Tobias and Arens, Jutta and Stollenwerk, Andr{e} },
  title = { Automatisierung und Fehlerdiagnose bei der extrakorporalen
Membranoxygenierung },
  journal = { Automatisierungstechnik : at },
  publisher = { Oldenbourg},
  pages = { 277-285 },
  volume = { 58 },
  number = { 5 },
  year = { 2010 },
  address = { M{"u}nchen },
  issn = { 0178-2312 },
  doi = { 10.1524/auto.2010.0838 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-014968 },
  cin = { 120000 / 122810533000-2 / 611010811001-1811001-4hsbk080061 },
  url = { http://publications.rwth-aachen.de/record/133926 },
}

@article { WLK+10a,
```

```
author = { Walter, Marian and Leonhardt, Steffen and Kopp, R{"u}dger
and Arens, Jutta and Weyer, S{"o}ren and Stollenwerk, Andr   },
title = { A physiological model for extracorporeal oxygenation
controller design },
journal = { Conference proceedings of the ... annual international
conference of the IEEE Engineering in Medicine and Biology Society },
publisher = { IEEE },
pages = { 434-437 },
volume = { 2010 },
year = { 2010 },
address = { Piscataway, NJ },
issn = { 1557-170X },
isbn = { 978-1-4244-4123-5 },
doi = { 10.1109/IEMBS.2010.5627416 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-047104 },
cin = { 120000 / 122810533000-2533000-3 / 611010811001-4 },
url = { http://publications.rwth-aachen.de/record/169533 },
}
```

```
@inproceedings { WBA+11,
author = { Walter, Marian and Brendle, Christian and Arens, Jutta and
Stollenwerk, Andr   and Kopp, R{"u}dger and Bensberg, Ralf and Leonhardt,
Steffen },
title = { Physiological target control in long term extracorporeal
oxygenation },
booktitle = { The international journal of artificial organs },
publisher = { Wichtig },
pages = { 625-625 },
volume = { 34 },
number = { 8 },
series = { 2011 },
year = { 2011 },
address = { Milano [u.a.] },
issn = { 0391-3988 },
organization = { XXXVIII Annual ESAO & IV Biennial IFAO Congress, Porto
(Portugal), 2011-10-09 - 2011-10-12 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-004690 },
cin = { 120000 / 122810 / 611010 },
url = { http://dx.doi.org/10.5301/IJAO.2011.8701 },
}
```

```
@inproceedings { WBS+12,
author = { Walter, Marian and Brendle, Christian and Stollenwerk, Andr  
and Kopp, R{"u}dger and Arens, Jutta and Bensberg, Ralf and Leonhardt,
Steffen },
title = { Patient oriented closed loop control of extracorporeal lung
assist },
booktitle = { 11th International Conference on Complexity in Acute
Illness (ICCAI), Ottawa, Canada, September 6 - 9, 2012 },
```

```
    pages = { 51-51 },
    year = { 2012 },
    organization = { 11. International Conference on Complexity in Acute
Illness, Ottawa (Canada), 2012-09-06 - 2012-09-09 },
    typ = { PUB:(DE-HGF)1 },
    reportid = { RWTH-CONV-004925 },
    cin = { 611010 / 122810 / 120000 },
    url = { http://www.scai-med.org/meetings/2012Iccai/2012iccaiprogram.pdf
},
}
```

```
@inproceedings { WBS+13,
    author = { Walter, Marian and Brendle, Christian and Stollenwerk, André
and Kopp, R{"u}dger and Arens, Jutta and Bensberg, Ralf and Leonhardt,
Steffen },
    title = { Patient oriented closed loop control of extracorporeal lung
assist },
    booktitle = { Journal of critical care },
    publisher = { Elsevier },
    pages = { e8-e9 },
    volume = { 28 },
    number = { 1 },
    year = { 2013 },
    address = { New York, NY },
    issn = { 0883-9441 },
    organization = { SCAI Meeting },
    doi = { 10.1016/j.jcrc.2012.10.032 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-004950 },
    cin = { 120000811001-1533000-2 / 122810 / 611010 },
    url = { http://publications.rwth-aachen.de/record/211234 },
}
```

```
@article { WSB+13,
    author = { Walter, Marian and Stollenwerk, André and Bensberg, Ralf and
Kopp, R{"u}dger and Leonhardt, Steffen },
    title = { Smart ECLA-closed loop control of O2 and CO2 for management
of extracorporeal lung assist },
    journal = { Journal of critical care },
    publisher = { Elsevier },
    pages = { e41-e42 },
    volume = { 28 },
    year = { 2013 },
    address = { New York, NY },
    issn = { 0883-9441 },
    doi = { 10.1016/j.jcrc.2013.07.038 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-080592 },
    cin = { 120000 / 122810 / 611010 },
    url = { http://publications.rwth-aachen.de/record/231618 },
}
```

```
@inproceedings { WBK+16,  
  author = { Walter, Marian and Brendle, Christian and K{"u}hn, Jan and  
Janisch, Thorsten and Kopp, R{"u}dger and Stollenwerk, Andr  and Leonhardt,  
Steffen },  
  title = { Assistive Control of Extracorporeal Oxygenation Systems },  
  booktitle = { Proceedings of the 12th Russian-German Conference on  
Biomedical Engineering : 04-07 Jul 2016, Suzdal, Russia },  
  publisher = { Vladimir state univ. named after Alexandr and Nikolay  
Stoletovs },  
  pages = { 222-226 },  
  year = { 2016 },  
  address = { Suzdal },  
  organization = { 12. Russian-German Conference on Biomedical  
Engineering, Suzdal (Russia), 2016-07-04 - 2016-07-07 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-2017-00562 },  
  cin = { 611010533000-2 / 122810 / 120000 },  
  url = { http://bit.ly/2uN1hRR },  
  illkey = { DFG project 224967929 - Kooperierende Regelung von  
extrakorporaler Lungenunterst tzung und Beatmung f r die Therapie  
des Lungenversagens (ECLA-VENT) (224967929) },  
}
```

```
@inproceedings { WKK+17,  
  author = { Walter, Marian and Kunczik, Janosch and K{"u}hn, Jan and  
Janisch, Thorsten and Kopp, R{"u}dger and Leonhardt, Steffen },  
  title = { Robust control of extracorporeal gas exchange },  
  booktitle = { Abstract Book at EMBEC'17 & NBC'17 : the Joint conference  
of the European Medical and Biological Engineering Conference (EMBEC) and  
the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics  
(NBC) : Tampere, Finland / Editors: Jennika Karvinen, Janne Koivisto, Sampo  
Tuukkanen, Jari Viik },  
  publisher = { BioMediTech Institute and Faculty of Biomedical Sciences  
and Engineering Tampere University of Technology },  
  pages = { 365, 150-150 },  
  year = { 2017 },  
  address = { Finland },  
  organization = { Joint conference of the European Medical and  
Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference  
on Biomedical Engineering and Medical Physics (NBC), Tampere (Finland),  
2017-06-11 - 2017-06-15 },  
  typ = { PUB:(DE-HGF)1 },  
  reportid = { RWTH-2018-221548 },  
  cin = { 611010 / 122810533000-3 / 120000 },  
  url = { http://embec2017.org/2017/07/07/final-abstract-book/ },  
}
```

```
@inproceedings { WKJ+18,  
  author = { Walter, Marian and K{"u}hn, J. and Janisch, Thorsten and  
Petran, Jan and Kopp, R{"u}dger and Leonhardt, Steffen },  
  title = { Cooperative automation of extracorporeal gas exchange and
```

```

artificial ventilation },
    booktitle = { World Congress on Medical Physics & Biomedical
Engineering : June 3-8, 2018, Prague, Czech Republic : IUPESM Pague 2018 :
Book of Abstracts },
    pages = { 663-664 },
    year = { 2018 },
    organization = { World Congress on Medical Physics & Biomedical
Engineering, Prague (Czech Republic), 2018-06-03 - 2018-06-08 },
    typ = { PUB:(DE-HGF)1 },
    reportid = { RWTH-2019-01150 },
    cin = { 611010 / 122810 / 9210120 / 120000 },
    url = { https://guarant.topinfo.cz/iupesm2018/en/book-of-abstracts },
}

@inproceedings { WSE+22,
    author = { Walter, Marian and Stollenwerk, André and Eckstein, Lutz and
Kowalewski, Stefan and Leonhardt, Steffen },
    title = { PV1000 – Interdisziplinäre Entwicklung eines Pandemie-
Beatmungsgerätes },
    booktitle = { MT-2022 Tagungsband },
    pages = { 169 },
    year = { 2022 },
    organization = { Fachtagung MECHATRONIK 2022, Darmstadt (Germany),
2022-03-23 - 2022-03-24 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-2023-00203 },
    cin = { 611010 / 122810 / 414110 / 120000 },
    url = {
https://www.vdi-mechatroniktagung.de/images/programm/MT2022_Tagungsband.pdf
},
}

@inproceedings { WWS+09,
    author = { Wartzek, Tobias and Walter, Marian and Stollenwerk, André
and Kopp, Rüdiger and Kashefi, Ali and Leonhardt, Steffen },
    title = { Automatisierung der extrakorporalen Membranoxygenierung },
    booktitle = { Automatisierungstechnische Verfahren für die Medizin
: 8. Workshop ; Tagungsband / Thomas Schauer ... (eds.) },
    publisher = { VDI-Verlag },
    pages = { 25-26 },
    series = { Fortschritt-Berichte VDI : Reihe 17,
Biotechnik/Medizintechnik },
    year = { 2009 },
    address = { Düsseldorf },
    organization = { Automatisierungstechnische Verfahren für die
Medizin : 8. Workshop },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-172395 },
    cin = { 122810 / 611010 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99429 },
}

```

```
@inproceedings { WWS+09a,  
  author = { Wartzek, Tobias and Walter, Marian and Schmitz-Rode, Thomas  
and Kowalewski, Stefan and Rossaint, Rolf },  
  title = { In Vivo Validation of an Automatic Controlled Extracorporeal  
Membrane Oxygenator },  
  booktitle = { World Congress on Medical Physics and Biomedical  
Engineering : 7 - 12 September, 2009, Munich, Germany / Olaf D{"o"}ssel;  
Wolfgang C. Schlegel (eds.). - 7. Diagnostic and therapeutic  
instrumentation, clinical engineering },  
  publisher = { Springer },  
  pages = { 118-121 },  
  series = { IFMBE proceedings },  
  year = { 2009 },  
  address = { Berlin [u.a.] },  
  organization = { World Congress on Medical Physics and Biomedical  
Engineering, Munich (Germany), 2009-09-07 - 2009-09-12 },  
  doi = { 10.1007/978-3-642-03885-3_34 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-172852 },  
  cin = { 122810 / 611010 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/99922 },  
}
```

```
@phdthesis { Was16,  
  author = { Wassen, Georg },  
  othercontributors = { Leupers, Rainer and Kowalewski, Stefan },  
  title = { Suppressing jitter by isolating bare-metal tasks within a  
general-purpose OS on x86 NUMA systems },  
  school = { Rheinisch-Westf{"a"}lische Technische Hochschule Aachen },  
  pages = { 1 Online-Ressource (x, 314 Seiten) : Illustrationen,  
Diagramme },  
  year = { 2016 },  
  address = { Aachen },  
  doi = { 10.18154/RWTH-2017-05450 },  
  typ = { PUB:(DE-HGF)11 },  
  reportid = { RWTH-2017-05450 },  
  cin = { 611910 / 122810 / 120000 },  
  url = {  
http://publications.rwth-aachen.de/record/690874/files/690874.pdf },  
}
```

```
@inbook { WSL+14,  
  author = { Weinstock, Jan Henrik and Schumacher, Christoph and Leupers,  
Rainer and Ascheid, Gerd },  
  title = { SScandal: SystemC Analysis for Nondeterminism Anomalies },  
  booktitle = { Models, Methods, and Tools for Complex Chip Design :  
Selected Contributions from FDL 2012 / edited by Jan Haase },  
  publisher = { Springer International Publishing [u.a.] },  
  pages = { 69-88 },  
  volume = { 265 },  
  series = { Lecture Notes in Electrical Engineering },
```

```

    year = { 2014 },
    address = { Cham ; s.l. },
    doi = { 10.1007/978-3-319-01418-0_5 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-110987 },
    cin = { 120000 / 618130 / 122810 / 611810 / 611910 },
    url = { http://publications.rwth-aachen.de/record/229017 },
}

```

WB0+23,

```

    author = { Wiartalla, Marc Oliver and Berg, Frederik Julius and
Ottersbach, Florian and K{"u}hn, Jan and Buglowski, Mateusz and Kowalewski,
Stefan and Stollenwerk, André },
    title = { A modular and verifiable software architecture for
interconnected medical systems in intensive care },
    year = { 2023 },
    doi = { 10.18154/RWTH-2023-07342 },
    typ = { PUB:(DE-HGF)33 },
    reportid = { RWTH-2023-07342 },
    cin = { 122810 / 120000 },
    url = {
https://git.rwth-aachen.de/informatik11/asmo-software/-/tags/V2.0 },
    illkey = { DFG project 224967929 - Kooperierende Regelung von
extrakorporaler Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie
des Lungenversagens (ECLA-VENT) (224967929) },
}

```

@article { WBK+23,

```

    author = { Wiartalla, Marc Oliver and Berg, Frederik Julius and
K{"u}hn, Jan and Buglowski, Mateusz and Bleilevens, Christian and
Kowalewski, Stefan and Stollenwerk, André },
    title = { A fully automated normothermic machine perfusion system for
kidney grafts supporting physiological motivated flow profiles },
    journal = { Current directions in biomedical engineering },
    publisher = { De Gruyter },
    pages = { 323-326 },
    volume = { 9 },
    number = { 1 },
    year = { 2023 },
    address = { Berlin },
    issn = { 2364-5504 },
    organization = { 57. DGBMT Annual Conference on Biomedical Engineering,
Duisburg (Germany), 2023-09-26 - 2023-09-28 },
    doi = { 10.1515/cdbme-2023-1081 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2023-09613 },
    cin = { 122810 / 120000 / 931210 },
    illkey = { BMBF 031L0134B - Alternativmethoden - Verbund: AutoMock -
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{"u"}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{"a"}tstestung von Membranoxygenatoren und zur

```

```
Transplantationssimulation (BMBF-031L0134B) },  
}
```

```
@article { WB0+23a,  
  author = { Wiartalla, Marc Oliver and Berg, Frederik Julius and  
Ottersbach, Florian and K{"u}hn, Jan and Buglowski, Mateusz and Kowalewski,  
Stefan and Stollenwerk, Andr{e} },  
  title = { A modular and verifiable software architecture for  
interconnected medical systems in intensive care },  
  journal = { Annals of computer science and information systems },  
  publisher = { Polish Information Processing Society },  
  pages = { 345-351 },  
  volume = { 37 },  
  year = { 2023 },  
  address = { Warsaw },  
  issn = { 2300-5963 },  
  isbn = { 978-83-969601-3-9 },  
  organization = { 18. Conference on Computer Science and Intelligence  
Systems, Warsaw (Poland), 2023-09-17 - 2023-09-20 },  
  doi = { 10.15439/2023F6208 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2023-09964 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/971996 },  
  illkey = { BMBF 031L0134B - Alternativmethoden - Verbund: AutoMock -  
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein  
k{"u"}nstlicher Kreislauf als Ersatzmethode zur  
Biokompatibilit{"a"}tstestung von Membranoxygenatoren und zur  
Transplantationssimulation (BMBF-031L0134B) },  
}
```

```
@inproceedings { WGM+13,  
  author = { Wiechowski, Norbert and Gerlitz, Thomas and Merschen, Daniel  
and Kowalewski, Stefan },  
  title = { Ein Ansatz zum merkmalsbasierten Konsistenzmanagement in der  
Produktlinienentwicklung },  
  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;  
fachwissenschaftlicher Informatik-Kongress 22. und 23. M{"a"}rz 2013 B-IT  
Bonn-Aachen International Center for Information Technology, Bonn /  
Gesellschaft f{"u"}r Informatik (Hrsg.). [Red.: Ludger Porada] },  
  publisher = { Gesellschaft f{"u"}r Informatik e.V. },  
  pages = { 2502-2516 },  
  series = { GI-Edition : lecture notes in informatics },  
  year = { 2013 },  
  address = { Bonn },  
  organization = { fachwissenschaftlicher Informatik-Kongress : smart  
life - dank Informatik, Bonn (Germany), 2013-03-22 - 2013-03-23 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-204229 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/226820 },  
}
```

```
}

@article { WRB+17,
  author = { Wiechowski, Norbert and Rambow, Thomas and Busch, Rainer and
Kugler, Alexander and Hansen, Norman and Kowalewski, Stefan },
  title = { Arttest - a New Test Environment for Model-Based Software
Development },
  journal = { SAE technical paper },
  publisher = { SAE International },
  volume = { 2017-01-0004 },
  year = { 2017 },
  address = { [Warrendale, PA] },
  issn = { 2688-3627 },
  organization = { SAE World Congress Experience, Detroit, MI (USA),
2017-04-04 - 2017-04-06 },
  doi = { 10.4271/2017-01-0004 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-236304 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752280 },
}

@phdthesis { Wil08,
  author = { Wilking, Dirk },
  othercontributors = { Kowalewski, Stefan },
  title = { Empirical studies for the application of agile methods to
embedded systems },
  publisher = { Fachgruppe Informatik, RWTH Aachen },
  pages = { XIV, 157 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2008 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-114604 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/52375/files/Wilking_Dirk.pdf },
}

@inbook { WK05,
  author = { Wilking, Dirk and Kowalewski, Stefan },
  title = { Agile methods for embedded systems },
  booktitle = { Extreme programming and agile processes in software
engineering : 6th international conference, XP 2005, Sheffield, UK, June 18
- 23, 2005 ; proceedings / Hubert Baumeister ... (ed.) },
  publisher = { Springer },
  pages = { 319-320 },
  volume = { 3556 },
  series = { Lecture notes in computer science },
  year = { 2005 },
  address = { Berlin [u.a.] },
```

```
doi = { 10.1007/11499053_66 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-099898 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/88301 },
}

@inproceedings { WK07,
  author = { Wilking, Dirk and Kowalewski, Stefan },
  title = { Analyzing software engineering processes on source code level },
  booktitle = { New trends in software methodologies, tools and
techniques : [proceedings of the sixth SoMeT 07] / ed. by Hamido Fujita ...
},
  publisher = { IOS Press },
  pages = { 305-314 },
  series = { Frontiers in artificial intelligence and applications },
  year = { 2007 },
  address = { Amsterdam [u.a.] },
  organization = { 6. SoMeT 07 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188511 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/117070 },
}

@inproceedings { WSK08,
  author = { Wilking, Dirk and Schilli, David and Kowalewski, Stefan },
  title = { Measuring the human factor with the Rasch Model },
  booktitle = { Balancing agility and formalism in software engineering :
Second IFIP TC 2 Central and East European Conference on Software
Engineering Techniques, CEE-SET 2007, Poznań, Poland, October 10-12, 2007 ;
revised selected papers / Bertrand Meyer; Jerzy R. Nawrocki; Bartosz Walter
(eds.) },
  publisher = { Springer },
  pages = { 157-168 },
  series = { Lecture notes in computer science },
  year = { 2008 },
  address = { Berlin [u.a.] },
  organization = { 2. IFIP TC 2 Central and East European Conference on
Software Engineering Techniques: Balancing Agility and Formalism in Software
Engineering, Poznań (Poland), 2007-10-10 - 2007-10-12 },
  doi = { 10.1007/978-3-540-85279-7_13 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-197274 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/127027 },
}

@inproceedings { WR05,
  author = { Wilking, Dirk and R{"o"}fer, Thomas },
```

```
    title = { Realtime Object Recognition Using Decision Tree Learning },
    booktitle = { RoboCup 2004: Robot Soccer World Cup VIII / Daniele Nardi
... (ed.) },
    publisher = { Springer },
    pages = { 556-563 },
    series = { Lecture notes in computer science : Lecture notes in
artificial intelligence },
    year = { 2005 },
    address = { Heidelberg [u.a.] },
    organization = { Robot Soccer World Cup VIII, 2004 },
    doi = { 10.1007/978-3-540-32256-6_52 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-197755 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/127542 },
}

@article { WKK07,
    author = { Wilking, Dirk and Khan, Umar Farooq and Kowalewski, Stefan
},
    title = { An empirical evaluation of refactoring },
    journal = { e-informatica : software engineering journal },
    publisher = { Oficyna Wydawn. Politechn. },
    pages = { 29-44 },
    volume = { 1 },
    number = { 1 },
    year = { 2007 },
    address = { Wroclaw },
    issn = { 1897-7979 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-031477 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/153013 },
}

@phdthesis { Wim15,
    author = { Wimmershoff, Marc },
    othercontributors = { Eckstein, Lutz and Kowalewski, Stefan },
    title = { Fusion und Sensitivit{"a}tsanalyse von Kamera- und digitalen
Navigationsdaten },
    publisher = { Fka, Forschungsges. Kraftfahrwesen },
    pages = { 144 S. : Ill., graph. Darst. },
    series = { Schriftenreihe Automobiltechnik },
    year = { 2015 },
    address = { Aachen },
    isbn = { 9783940374820 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-207469 },
    cin = { 414110 / 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/481303 },
}
```

```
@article { WSA+18,
  author = { Winter, Alfred and St{"a"}ubert, Sebastian and Ammon, Danny
and Aiche, Stephan and Beyan, Oya Deniz and Bischoff, Verena and Daumke,
Philipp and Decker, Stefan Josef and Funkat, Gert and Gewehr, Jan E. and de
Greiff, Armin and Haferkamp, Silke Dorothee and Hahn, Udo and Henkel,
Andreas and Kirsten, Toralf and Kl{"o"}ss, Thomas and Lippert, J{"o"}rg and
L{"o"}be, Matthias and Lowitsch, Volker and Maassen, Oliver and Maschmann,
Jens and Meister, Sven and Mikolajczyk, Rafael and N{"u"}chter, Matthias and
Pletz, Mathias W. and Rahm, Erhard and Riedel, Morris and Saleh, Kutaiba and
Schuppert, Andreas and Smers, Stefan and Stollenwerk, Andr{e} and Uhlig,
Stefan and Wendt, Thomas and Zenker, Sven and Fleig, Wolfgang and Marx,
Gernot and Scherag, Andr{e} and L{"o"}ffler, Markus },
  title = { Smart Medical Information Technology for Healthcare (SMITH) :
Data Integration based on Interoperability Standards },
  journal = { Methods of information in medicine },
  publisher = { Thieme },
  pages = { e92-e105 },
  volume = { 57 },
  number = { S 01 },
  year = { 2018 },
  address = { Stuttgart },
  issn = { 2511-705X },
  doi = { 10.18154/RWTH-CONV-237913 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-237913 },
  cin = { 528500-2533000-2 / 122810 / 120000 / 121810 },
  url = {
http://publications.rwth-aachen.de/record/757852/files/757852.pdf },
  illkey = { SMITH - Medizininformatik-Konsortium (BMBF-01ZZ1803K) },
}
```

```
@inproceedings { WLB+18,
  author = { Woopen, Timo and Lampe, Bastian and B{"o"}ddeker, Torben and
Eckstein, Lutz and Kampmann, Alexandru and Alrifaae, Bassam and Kowalewski,
Stefan and Moormann, Dieter and Stolte, Torben and Jatzkowski, Inga and
Maurer, Markus and M{"o"}stl, Mischa and Ernst, Rolf and Ackermann, Stefan
and Amersbach, Christian and Winner, Hermann and P{"u"}llen, Dominik and
Katzenbeisser, Stefan and Leinen, Stefan and Becker, Matthias and Stiller,
Christoph and Furmans, Kai and Bengler, Klaus and Diermeyer, Frank and
Lienkamp, Markus and Keilhoff, Dan and Reuss, Hans-Christian and Buchholz,
Michael and Dietmayer, Klaus and Lategahn, Henning and Siepenk{"o"}tter,
Norbert and Elbs, Martin and v. Hin{"u"}ber, Edgar and Dupuis, Marius and
Hecker, Christian },
  title = { UNICARagil - Disruptive Modular Architectures for Agile,
Automated Vehicle Concepts },
  booktitle = { 27. Aachen Colloquium Automobile and Engine Technology :
October 8th-10th, 2018, Eurogress Aachen, Germany / scientific management:
Univ.-Prof. Dr.-Ing. Lutz Eckstein, Univ.-Prof. Dr.-Ing. Stefan Pischinger ;
organizational management: Benedikt Hammerm{"u"}ller (M. Sc.), Dipl.-Ing.
Rainer Wolsfeld ; organized by: Institute for Automotive Engineering (RWTH
Aachen), Institute for Combustion Engines (RWTH Aachen) },
```

```

publisher = { Institute for Automotive Engineering, RWTH Aachen },
pages = { 663-694 },
year = { 2018 },
address = { Aachen },
organization = { 27. Aachen Colloquium Automobile and Engine Technology
2018 = 27. Aachen Colloquium Automobile and Engine Technology, Aachen
(Germany), 2018-10-08 - 2018-10-10 },
doi = { 10.18154/RWTH-2018-229909 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-229909 },
cin = { 414110 / 122810 / 415410 / 120000 },
url = {
http://publications.rwth-aachen.de/record/749158/files/749158_Liste%20der%20
Partner%20.pdf },
illkey = { DESIREE - Konzeptionierung und Umsetzung des automatisierten
AUT0shuttles },
}

@proceedings { ZAB+16,
editor = { Zimmermann, Wolf and Alperowitz, Lukas and Br{"u"}gge, Bernd
and Fahsel, J{"o"}rg and Herrmann, Andrea and Hoffmann, Anne and Krall,
Andreas and Landes, Dieter and Lichter, Horst and Riehle, Dirk and Schaefer,
Ina and Scheuermann, Constantin and Schlaefer, Alexander and Schupp, Sibylle
and Seitz, Andreas and Steffens, Andreas and Stollenwerk, Andr{e} and
Wei{\ss}bach, R{"u"}diger },
title = { Gemeinsamer Tagungsband der Workshops der Tagung Software
Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 },
publisher = { RWTH Aachen },
pages = { 219 Seiten },
volume = { 1559 },
series = { CEUR workshop proceedings },
year = { 2016 },
address = { Aachen, Germany },
organization = { Gemeinsamer Tagungsband der Workshops der Tagung
Software Engineering 2016, Wien (Austria), 2016-02-23 - 2016-02-26 },
typ = { PUB:(DE-HGF)26 },
reportid = { RWTH-2016-03787 },
cin = { 122810 / 120000 / 121620 },
url = { http://publications.rwth-aachen.de/record/573915 },
}

```

From:

<https://www.embedded.rwth-aachen.de/> - **Informatik 11 - Embedded Software**

Permanent link:

<https://www.embedded.rwth-aachen.de/doku.php?id=bib:publikationen>

Last update: **2024/05/24 14:00**

