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Kontakt



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Büro: Raum 2309 (Gebäude H, 3. OG)

Fachausschüsse

- [GMA Fachausschuss 7.25 - "Testen vernetzter Systeme in Industrie 4.0"](#) (seit 2015)

Patente

- Method and Device for Testing a Software Program (EP000003306295A1, US020180101472A1, CN000107918585A)
- Method and Device for Assessing Signals (DE102017217835A1, US020180101503A1, CN000107918691A)

Abschlussarbeiten

Bei Interesse bitte ich um Kontaktaufnahme per E-Mail oder persönlich bei mir im Büro.

Laufend

Abgeschlossen

- Automated Test Case Generation for Reactive Systems from a Controlled Natural Language
- Evaluation of the SysReq Controlled Natural Language for the Generation of Functional Test Cases
 - Simulation-free Evaluation of Existing Data in Arttest
 - Grafisch änderbare visuelle Testfallspezifikation in Arttest
- Entwicklung eines Plattformadapters zur Unterstützung zusätzlicher Simulationsumgebungen in Arttest
 - Entwicklung eines Frameworks zur performanten Visualisierung von Signalen und Akzeptanzbereich für Arttest
- Entwicklung einer Widget-basierten Oberfläche zur Steuerung von Simulink Modellen in Arttest

Lehre

Semester	Titel	Art
Wintersemester 18/19	Einführung in die Technische Informatik	V
	Modellbasiertes Testen & Analyse eingebetteter Software	S
Sommersemester 18	Modellbasiertes Testen & Analyse eingebetteter Software	S
Wintersemester 17/18	Einführung in die Technische Informatik	V
	Modellbasiertes Testen & Analyse eingebetteter Software	S
Sommersemester 17	Modellbasiertes Testen & Analyse eingebetteter Software	S
Wintersemester 16/17	Einführung in die Technische Informatik	V
	Modellbasiertes Testen & Analyse eingebetteter Software	S
Sommersemester 16	Modellbasiertes Testen & Analyse eingebetteter Software	S
Wintersemester 15/16	Einführung in die Technische Informatik	V
	Modellbasiertes Testen & Analyse eingebetteter Software	S

Sprechstunde

Nach Vereinbarung.

Publikationen

[BFH+18]

[PDFBIB](#)

Bordasch, M., Facchi, C., Heidepriem, S., Jähnert, J., Jung, T., Köllner, C., Kraas, A., Krause, J., Krüning, K., Kugler, A., Maschler, B., Schleicher, C., Siegrist, D., Simon, H., Störmer, C., Thönnessen, D., Wassermann, E., Weyrich, M., Wimmer, T., and Zeller, A., "VDI Status Report Testing of Networked Systems for Industrie 4.0", 2018.

VDI Status Report Testing of Networked Systems for

Industrie 4.0

Bibtex entry :

```
@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 },
}
```

[KRG+18]

[PDFBIB](#)

Kriebel, S., Richenhagen, J. M., Granrath, C., and Kugler, C., "Systems engineering with SysML : The path to the future?", *MTZ worldwide*, vol. 79, iss. 5, pp. 44-47, 2018

Systems engineering with SysML : The path to the future?

Bibtex entry :

```
@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 },
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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 },  
}
```

[KRG+18a]

[PDFBIB](#)

Kriebel, S., Richenhagen, J. M., Granrath, C., and Kugler, C., "Systems Engineering mit SysML : Der Weg in die Zukunft?", *Motortechnische Zeitschrift : MTZ*, vol. 79, iss. 5, pp. 48-53, 2018

Systems Engineering mit SysML : Der Weg in die Zukunft?

Bibtex entry :

```
@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 },  
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  url = { http://publications.rwth-aachen.de/record/731745 },  
}
```

[HWK+17]

[PDFBIB](#)

Hansen, N., Wiechowski, N., Kugler, A., Kowalewski, S., Rambow, T., and Busch, R., "Model-in-the-Loop and Software-in-the-Loop Testing of Closed-Loop Automotive Software with Arttest", in *Proc. Informatik 2017 - Bände I-III : Tagung vom 25.-29. September 2017 in Chemnitz / Maximilian Eibl, Martin Gaedke (Hrsg.)*, Bonn, 2017 in GI-Edition : lecture notes in informatics. Proceedings, Gesellschaft für Informatik, pp. 1537-1549.

Model-in-the-Loop and Software-in-the-Loop Testing of Closed-Loop Automotive Software with Arttest

Bibtex entry :

```
@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 - B{\a}nde I-III : Tagung vom
    25.-29.
      September 2017 in Chemnitz / 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 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236306 },
  cin = { 122810 / 120000 },
  url = { https://dl.gi.de/handle/20.500.12116/21 },
}
```

[KKR+17]

[PDFBIB](#)

Kugler, C., Kowalewski, S., Richenhagen, J. M., Maquet, R., and Schloßer, A., "Metrics-based strategies for quality assurance of automotive embedded software", in *Proc. 17. Internationales Stuttgarter Symposium : Automobil- und Motorentechnik / herausgegeben von Michael Bargende, Hans-Christian Reuss, Jochen Wiedemann, Wiesbaden, 2017* in Proceedings, Springer Vieweg, pp. 711-730.

Metrics-based strategies for quality assurance of automotive embedded software**Bibtex entry :**

```
@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,
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```
Hans-Christian Reuss, Jochen Wiedemann },
publisher = { Springer Vieweg },
pages = { 711-730 },
series = { Proceedings },
year = { 2017 },
address = { Wiesbaden },
organization = { 17. Internationales Stuttgarter Symposium
Automobil- und
Motorentchnik, 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 },
}
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[NKM+17]

[PDFBIB](#)

Nowack, J., Kugler, C., Maquet, R., Richenhagen, J., and Remelhe, F., "Continuous process for the validation of transmission controls." 2017.

Continuous process for the validation of transmission controls

Bibtex entry :

```
@inproceedings { NKM+17,
  author = { Nowack, Jan and Kugler, Christopher and Maquet, Ralf and
    Richenhagen, Johannes 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-transmission-controls/ },
}
```

[WRB+17]

[PDFBIB](#)

Wiechowski, N., Rambow, T., Busch, R., Kugler, A., Hansen, N., and Kowalewski, S., "Arttest - a New Test Environment for Model-Based Software Development", *SAE technical paper*, vol. 2017-01-0004, 2017

Arttest - a New Test Environment for Model-Based

Software Development

Bibtex entry :

```
@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, Mich.  
(USA),  
  2017-04-04 - 2017-04-06 },  
  doi = { 10.4271/2017-01-0004 },  
  typ = { PUB:(DE-HGF)16 },  
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  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/752280 },  
}
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Anmerkung: [KKR+17] und [NKM+17] sind keine Veröffentlichungen von mir. Diese Einträge werden leider angezeigt, weil es mittels des Bibtex Plugin von DokuWiki nicht möglich ist, gleichzeitig nach Vor- und Nachnamen zu filtern.

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