Dr.-Ing. Florian Ottersbach (Göbe)



Doktorand bis 11/2017
12/2017 - 08/2019: EXIST-Forschungstransfer (BMWi) Arttest
Seit 01/2019: Co-Founder und COO Mindmotiv GmbH

Kontakt:

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Adresse: Informatik 11, Ahornstr. 55, 52074 Aachen
Büro: Raum 2314 (Gebäude H, 3. OG)

Gremien

Hochschulintern

- Lenkungsausschuss des DFG-GRK 1298 „AlgoSyn“ (2015)

Fachausschüsse

- GMA Fachausschuss 1.50 - „Methoden der Steuerungstechnik“ (2012-2013)
- GMA Fachausschuss 7.21 - „Industrie 4.0“ (2013-2017)

Lehre

2016

- Einführung in eingebettete Systeme (V)

2015

- Einführung in eingebettete Systeme (V)

2014

- Einführung in eingebettete Systeme (V)

2013

- Einführung in eingebettete Systeme (V)
- Synthese und Implementierung von Steuerungen für ereignisdiskrete Systeme (S)

Betreute Abschlussarbeiten und Projekte

- Entwicklung einer Simulations- und Debuggingumgebung für Bilderkennungsverfahren im Bereich autonomer Mobilität
- Ansteuerung von SPS-Timern und erweiterte Codegenerierung für ein Werkzeug zur Synthese von ereignisdiskreten Überwachern
- Evaluation von Synthesetools für Steuerungssoftware im Bereich der Automatisierungstechnik

- Carolo Cup 2014 (http://galaxis.rwth-aachen.de/)

Publikationen

[Gob19]
PDFBIB
Göbe, F., "Runtime supervision of PLC programs using discrete-event systems", PhD Thesis, Aachen, 2019.

Runtime supervision of PLC programs using discrete-event systems

Bibtex entry :

```
@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 },
```

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    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 },
}
```

[GAK17]
PDFBIB

Göbe, F., Aydin, S., and Kowalewski, S., "Applicability of supervisory control theory for the supervision of PLC programs", in *Proc. 2017 22nd IEEE International Conference on Emerging Technologies and Factory Automation : September 12-15, 2017, Limassol, Cyprus / ABB, IEEE, IES, University of Cyprus*, Piscataway, NJ, 2017, IEEE, p. 8.

Applicability of supervisory control theory for the supervision of PLC programs

Bibtex entry :

```
@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 },
}
```

[GNK16]
PDFBIB

Göbe, F., Ney, O., and Kowalewski, S., "Reusability and Modularity of Safety Specifications for Supervisory Control", in *Proc. 2016 IEEE 21st International Conference on Emerging Technologies and Factory Automation (ETFA) : September 6-9, 2016 Berlin, Germany / IEEE, IES, Fraunhofer IOSB-INA, InIT*, Piscataway, NJ, 2016, IEEE, pp. 1-8.

Reusability and Modularity of Safety Specifications for Supervisory Control

Bibtex entry :

```
@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 },
}
```

[GTN+16]
PDFBIB

Göbe, F., Timmermanns, T., Ney, O., and Kowalewski, S., "Synthesis Tool for Automation Controller Supervision", in *Proc. 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*, Piscataway, NJ, 2016, IEEE, pp. 424-431.

Synthesis Tool for Automation Controller Supervision

Bibtex entry :

```
@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 },
}
```

[JGN14]
PDFBIB

Jansen, C., Göbe, F., and Noll, T., "Generating Inductive Predicates for Symbolic Execution of Pointer-Manipulating Programs", in *Proc. Graph transformation : 7th international conference, ICGT 2014, held as part of STAF 2014, York, UK, July 22 - 24, 2014 ; proceedings / Holger Giese ... (eds.)*, Cham [u.a.], 2014 in Lecture notes in computer science, Springer, pp. 65-80.

Generating Inductive Predicates for Symbolic Execution of Pointer-Manipulating Programs

Bibtex entry :

```
@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 },
}
```

[SGW+11]
PDFBIB

Stollenwerk, A., Göbe, F., Walter, M., Arens, J., Kopp, R., and Kowalewski, S., "Smart Data Provisioning for Model-Based Generated Code in an Intensive Care Application", in *Proc. 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*, Chicago, 2011, HCMDSS/MDPnP 2011 ; in conjunction with CPSweek 2011 ; April 11, 2011 Chicago, USA, p. 8.

Smart Data Provisioning for Model-Based Generated Code in an Intensive Care Application

Bibtex entry :

```
@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 },
}
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