

Florian Göbe, M.Sc. RWTH



Doktorand bis 11/2017

Seit 12/2017: EXIST-Forschungstransfer (BMW) [Arttest](#)

Seit 01/2019: Co-Founder [Mindmotiv GmbH](#)

Kontakt:

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Büro: Raum 2314 (Gebäude H, 3. OG)

Gremien

Hochschulintern

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

Fachausschüsse

- GMA [Fachausschuss 1.50](#) - „Methoden der Steuerungstechnik“ (seit 2012)
- GMA [Fachausschuss 7.21](#) - „Industrie 4.0“ (seit 2013)

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

- [Evaluation eines Werkzeugs zur Supervisorsynthese auf einer prozesstechnischen Anlage](#)
 - [Code-Generator und Framework für synthetisierte Sicherheitsmechanismen in SPS-Programmen](#)
 - [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](#)
 - [Ein intuitiv bedienbarer Editor für ein Werkzeug zur Analyse von Sequential Function Chart](#)
 - [Entwicklung mobiler Multiplattform-Clients für ein Buchungssystem](#)
 - [Remote-Supervisor für Speicherprogrammierbare Steuerungen](#)
- Carolo Cup 2014 (<http://galaxis.rwth-aachen.de/>)

Publikationen

[GAK18]

[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], 2018 in *IEEE International Conference on Emerging Technologies and Factory Automation-ETFA*, IEEE, p. 8.

Applicability of supervisory control theory for the supervision of PLC programs

Bibtex entry :

```
@inproceedings { GAK18,  
  author = { Göbe, 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 },
series = { IEEE International Conference on Emerging Technologies
and
          Factory Automation-ETFA },
year = { 2018 },
address = { [Piscataway, NJ] },
organization = { 22nd 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 = { Göbe, 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 = { 21st International Conference on Emerging
Technologies and
                  Factory Automation, Berlin (Germany), 2016-09-06 -
                  2016-09-09 },
}

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```
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 = { 2016 13th 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" *Cham [u.a.]: Springer, 2014, vol. 8571, pp. 65-80.*

Generating Inductive Predicates for Symbolic Execution of Pointer-Manipulating Programs

Bibtex entry :

```
@inbook { JGN14,
  author = { Jansen, Christina and Göbe, 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 },
  volume = { 8571 },
  series = { Lecture notes in computer science },
  year = { 2014 },
  address = { Cham [u.a.] },
  doi = { 10.1007/978-3-319-09108-2_5 },
  typ = { PUB:(DE-HGF)8 },
  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*, 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, 2011, p. 8.

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

Bibtex entry :

```
@inproceedings { SGW+11,
  author = { Stollenwerk, André and Göbe, F. and Walter, Marian and Arens, Jutta and Kopp, Rüdiger 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 },
pages = { 8 S. },
year = { 2011 },
address = { 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 },
typ = { PUB:(DE-HGF)6 },
reportid = { RWTH-CONV-006017 },
cin = { 611010 / 122810 },
url = {
http://www.seas.upenn.edu/~rahulm/Shared/HCMDSS/hcmdss11\_aachen.pdf },
}
```

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