

# Dr.-Ing. Florian Ottersbach (Göbe)



**Doktorand bis 11/2017**

**12/2017 - 08/2019: EXIST-Forschungstransfer (BMW i) [Arttest](#)**

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

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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“ (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 \(http://galaxis.rwth-aachen.de/\)](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 },
}

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[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 = { 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 },
  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 },
```

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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 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 },
  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 },
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  cin = { 611010 / 122810 / 120000 },
  url = {
http://www.seas.upenn.edu/~rahulm/Shared/HCMDSS/hcmdss11\_aachen.pdf },
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