

# Florian Göbe, M.Sc.RWTH



**Research Assistant and PhD student until 11/2017.  
Since 12/2017: Exist Research Transfer (BMW) [Arttest](#)**

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## Teaching

### 2017

- [Embedded Systems](#) (Lecture)

### 2016

- [Introduction to Embedded Systems](#) (Lecture)

### 2015

- [Introduction to Embedded Systems](#) (Lecture)

### 2014

- [Introduction to Embedded Systems](#) (Lecture)

### 2014

- [Introduction to Embedded Systems](#) (Lecture)
- [Synthese und Implementierung von Steuerungen für ereignisdiskrete Systeme](#) (Seminar)

## Supervised Theses

- [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/>)

## Other Projects

- Carolo Cup 2014 (<http://galaxis.rwth-aachen.de/> - German webpage)

## Publications

[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  
and  
  Factory Automation-ETFA },  
  year = { 2018 },
```

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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 = { 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 = { 21st 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 = { 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 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 },
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 },

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reportid = { RWTH-CONV-006017 },  
cin = { 611010 / 122810 },  
url = {  
http://www.seas.upenn.edu/~rahulm/Shared/HCMDSS/hcmdss11\_aachen.pdf },  
}
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