

# Dr. rer. nat. Andreas Polzer

I am a researcher at the chair of Embedded Software (RWTH Aachen University) since January 2006. In the first time I worked on a project called ZAMOMO. Within the project my interest was focused non-functional requirements and their integration into the model-based development process of Embedded Systems.

This work is the foundation for my current research on variable embedded systems. To this end a system is variable (for me) if one implementation provides a family of somehow different systems. To manage this complexity I use the Eclipse Modelling Framework and different development fragments. These fragments (like Simulink models, XML configuration) are transformed in the Eclipse world. With methods like transformation, model combination and analysis of the models I try manage the variability and handle the complexity.

Within the my research I work on different topics which are also accessible for students. Therefore feel free to write me an Email if you are interested in writing a thesis.



## Contact

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## Project(s)

- ZAMOMO ([www.zamomo.de](http://www.zamomo.de))

## Teaching

### Summer Semester 2006

- Safety & Reliability Engineering

### Winter Semester 2006 / 07

- Technische Informatik

## Summer Semester 2007

- Safety & Reliability Engineering

## Winter Semester 2007 / 08

- Technische Informatik

## Winter Semester 2008 / 09

- Seminar
- Proseminar

## Summer Semester 2009

- Seminar: Model-based Development

## Winter Semester 2009/10

- Lab: Computation of Batterie Capacity

## Publications

[Pol15]

[PDFBIB](#)

Polzer, A., "Ansatz zur variantenreichen und modellbasierten Entwicklung von eingebetteten Systemen unter Berücksichtigung regelungs- und softwaretechnischer Anforderungen = Model-based product-line development of embedded systems considering requirements form control- and software engineering", PhD Thesis, 2015.

# **Ansatz zur variantenreichen und modellbasierten Entwicklung von eingebetteten Systemen unter Berücksichtigung regelungs- und softwaretechnischer Anforderungen = Model-based product-line development of embedded systems considering requirements form control- and software engineering**

## **Bibtex entry :**

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@phdthesis { Pol15,  
  author = { Polzer, A. },  
  title = { Ansatz zur variantenreichen und modellbasierten  
Entwicklung  
  von eingebetteten Systemen unter Ber{"u}cksichtigung  
regelungs- und softwaretechnischer Anforderungen =  
Model-based product-line development of embedded systems  
considering requirements form control- and software
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[Pol15a]

[PDFBIB](#)

Polzer, A., "Ansatz zur variantenreichen und modellbasierten Entwicklung von eingebetteten Systemen unter Berücksichtigung regelungs- und softwaretechnischer Anforderungen", PhD Thesis, Aachen, 2015.

## **Ansatz zur variantenreichen und modellbasierten Entwicklung von eingebetteten Systemen unter Berücksichtigung regelungs- und softwaretechnischer Anforderungen**

### **Bibtex entry :**

```
@phdthesis { Pol15a,
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  othercontributors = { Kowalewski, Stefan and Lichter, Horst },
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    von eingebetteten Systemen unter Ber{"u}cksichtigung
    regelungs- und softwaretechnischer Anforderungen },
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  school = { Zugl.: Aachen, Techn. Hochsch. },
  series = { Aachener Informatik-Berichte },
  year = { 2015 },
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  url = {
  http://publications.rwth-aachen.de/record/561326/files/561326.pdf },
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[PBD+12]

[PDFBIB](#)

Plauss, A., Botterweck, G., Dhungana, D., Polzer, A., and Kowalewski, S., "Model-driven support for product line evolution on feature level", *The journal of systems and software : JSS*, vol. 85, iss. 10, pp. 2261-2274, 2012

## **Model-driven support for product line evolution on**

## feature level

### Bibtex entry :

```
@article { PBD+12,  
  author = { Pleuss, Andreas and Botterweck, G{"o}tz and Dhungana,  
    Deepak and Polzer, Andreas and Kowalewski, Stefan },  
  title = { Model-driven support for product line evolution on  
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  publisher = { Elsevier [u.a.] },  
  pages = { 2261-2274 },  
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  number = { 10 },  
  year = { 2012 },  
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[MPB+11]

[PDFBIB](#)

Merschen, D., Polzer, A., Botterweck, G., and Kowalewski, S., "Experiences of Applying Model-based Analysis to Support the Development of Automotive Software Product Lines", in *Proc. VaMoS 11 : fifth International Workshop on Variability Modelling of Software-intensive Systems ; 27 -29 January, 2011, Namur, Belgium ; proceedings / Krzysztof Czarnecki ... (eds.)*, New York, NY, 2011, ACM, pp. 141-150.

## Experiences of Applying Model-based Analysis to Support the Development of Automotive Software Product Lines

### Bibtex entry :

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@inproceedings { MPB+11,  
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```

[PMB+11]

[PDFBIB](#)

Polzer, A., Merschen, D., Botterweck, G., Pleuss, A., Thomas, J., Hedenetz, B., and Kowalewski, S., "Managing Complexity and Variability of a Model-based Embedded Software Product Line", *Innovations in systems and software engineering*, vol. 2011, pp. 1-15, 2011

## Managing Complexity and Variability of a Model-based Embedded Software Product Line

### Bibtex entry :

```

@article { PMB+11,
  author = { Polzer, Andreas and Merschen, Daniel and Botterweck,
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  title = { Managing Complexity and Variability of a Model-based
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  journal = { Innovations in systems and software engineering },
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[BPD+10]

[PDFBIB](#)

Botterweck, G., Pleuss, A., Dhungana, D., Polzer, A., and Kowalewski, S., "EvoFM: Feature-driven Planning of Product-line Evolution", in *Proc. PLEASE '10 : Proceedings of the 2010 ICSE Workshop on Product Line Approaches in Software Engineering ; May, Cape Town, South Africa*, New York, NY, 2010, ACM, pp. 24-31.

## EvoFM: Feature-driven Planning of Product-line Evolution

### Bibtex entry :

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@inproceedings { BPD+10,  
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  url = { http://publications.rwth-aachen.de/record/126457 },  
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[BPK10]

[PDFBIB](#)

Botterweck, G., Polzer, A., and Kowalewski, S., "Variability and Evolution in Model-based Engineering of Embedded Systems", in *Proc. Tagungsband / Dagstuhl-Workshop MBEES: Modellbasierte Entwicklung eingebetteter Systeme VI : Model-Based Development of Embedded Systems (MBEES 2010) ; 03.02.2010 - 05.02.2010 / Holger Giese ... [Hrsg.]*, München, 2010, fortiss, pp. 87-96.

## Variability and Evolution in Model-based Engineering of Embedded Systems

### Bibtex entry :

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@inproceedings { BPK10,  
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https://www.tu-braunschweig.de/Medien-DB/isf/mbees2010_tagungsband.pdf
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[PBD+10]

[PDFBIB](#)

Pleuss, A., Botterweck, G., Dhungana, D., Polzer, A., and Kowalewski, S., "Featureoriented modelling of product line evolution", 2010.

## Featureoriented modelling of product line evolution

### Bibtex entry :

```

@techreport { PBD+10,
  author = { Pleuss, A. and Botterweck, G. and Dhungana, D. and
Polzer,
  A. and Kowalewski, S. },
  title = { Featureoriented modelling of product line evolution },
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[PMT+10]

[PDFBIB](#)

Polzer, A., Merschen, D., Thomas, J., Hedenetz, B., and Kowalewski, S., "View-Supported Rollout and Evolution of Model-Based ECU Applications", in *Proc. 7th International Workshop on Model-based Methodologies for Pervasive*, New York, NY, 2010, ACM, pp. 37-44.

## View-Supported Rollout and Evolution of Model-Based ECU Applications

### Bibtex entry :

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@inproceedings { PMT+10,
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and
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[BPK09]

[PDFBIB](#)

Botterweck, G., Polzer, A., and Kowalewski, S., "Using higher-order transformations to derive variability mechanism", in *Proc. ACES-MB 2009 : Model Based Architecting and Construction of Embedded Systems ; Proceedings of the 2nd International Workshop on Model Based Architecting and Construction of Embedded Systems ; held as part of the 2009 International Conference on Model Driven Engineering Languages and Systems (MoDELS'09) ; Denver, Colorado, USA, October 6, 2009 / Ed. by: Stefan Van Baelen ...*, Aachen [u.a.], 2009 in CEUR Workshop Proceedings, Sun SITE Central Europe, pp. 107-121.

## Using higher-order transformations to derive variability mechanism

### Bibtex entry :

```
@inproceedings { BPK09,
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[BPK09a]

[PDFBIB](#)

Botterweck, G., Polzer, A., and Kowalewski, S., "Interactive configuration of embedded systems product lines", in *Proc. Proceedings of the 13th International Software Product Line Conference, SPLC 2009 : 24-28 August 2009, San Francisco, California, USA / IEEE Computer Society. John D. McGregor; ... (Eds.)*, Piscataway, NJ, 2009, IEEE, pp. 52-58.

## Interactive configuration of embedded systems product lines

### Bibtex entry :

```
@inproceedings { BPK09a,
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[BPK09b]

[PDFBIB](#)

Botterweck, G., Polzer, A., and Kowalewski, S., "Using Higher-Order Transformations to Derive Variability Mechanism for Embedded Systems", in *Proc. Models in software engineering : workshops and symposia at MODELS 2009, Denver, CO, USA, October 4 - 9, 2009 ; reports and revised selected papers / Sudipto Ghosh (ed.)*, Berlin [u.a.], 2009 in *Lecture notes in computer science*, Springer, pp. 68-82.

## Using Higher-Order Transformations to Derive Variability Mechanism for Embedded Systems

### Bibtex entry :

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@inproceedings { BPK09b,
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and revised selected papers / Sudipto Ghosh (ed.) },  
publisher = { Springer },  
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series = { Lecture notes in computer science },  
year = { 2009 },  
address = { Berlin [u.a.] },  
doi = { 10.1007/978-3-642-12261-3_8 },  
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cin = { 120000 / 122810 },  
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[BPP+09]

PDFBIB

Botterweck, G., Pleuss, A., Polzer, A., and Kowalewski, S., "Towards Feature-driven Planning of Product-Line Evolution", in *Proc. Proceedings of the first International Workshop on Feature-Oriented Software Development (FOSD) : October 6, 2009 Denver, Colorado, USA / eds.: Sven Apel ...*, New York, NY, 2009, ACM, pp. 109-116.

## Towards Feature-driven Planning of Product-Line Evolution

### Bibtex entry :

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@inproceedings { BPP+09,  
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[PBW+09]

## PDFBIB

Polzer, A., Botterweck, G., Wagnerin, I., and Kowalewski, S., "Variabilität im modellbasierten Engineering von eingebetteten Systemen", in *Proc. Informatik 2009 : im Focus das Leben ; Beiträge der 39. Jahrestagung der Gesellschaft für Informatik e.V. (GI), 28.9. - 2.10.2009 in Lübeck / Stefan Fischer ... (Hrsg.)*, Lübeck, Germany, 2009 in GI-Edition : Proceedings, Ges. für Informatik, pp. 331-331.

## Variabilität im modellbasierten Engineering von eingebetteten Systemen

### Bibtex entry :

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@inproceedings { PBW+09,
  author = { Polzer, Andreas and Botterweck, G{"o"}tz and Wagnerin,
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    28.9. - 2.10.2009 in L{"u"}beck / Stefan Fischer ... (Hrsg.) },
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[PKB09]

## PDFBIB

Polzer, A., Kowalewski, S., and Botterweck, G., "Applying software product line techniques in model-based embedded systems engineering", in *Proc. 2009 ICSE Workshop on Model-Based Methodologies for Pervasive and Embedded Software : (MOMPES 2009) ; May 16, 2009, Vancouver, Canada ; in conjunction with the 2009 IEEE 31st International Conference on Software Engineering (ICSE 2009); May 16-24, 2009, Piscataway, NJ, 2009, IEEE*, pp. 2-10.

## Applying software product line techniques in model-based embedded systems engineering

### Bibtex entry :

```
@inproceedings { PKB09,
  author = { Polzer, Andreas and Kowalewski, Stefan and Botterweck,
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title = { Applying software product line techniques in model-based
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year = { 2009 },
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[SZR+09]

[PDFBIB](#)

Schmitz, D., Zhang, M., Rose, T., Jarke, M., Polzer, A., Palczynski, J., Kowalewski, S., and Reke, M., "Mapping Requirement Models to Mathematical Models in Control System Development", in *Proc. Model driven architecture - foundations and applications : 5th European conference, ECMDA-FA 2009, Enschede, The Netherlands, June 23 - 26, 2009 ; proceedings / Richard F. Paige; Alan Hartman; Arend Rensink (eds.)*, Berlin [u.a.], 2009 in Lecture notes in computer science, Springer.

## Mapping Requirement Models to Mathematical Models in Control System Development

### Bibtex entry :

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@inproceedings { SZR+09,
  author = { Schmitz, Dominik and Zhang, Ming and Rose, Thomas and
Jarke,
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  year = { 2009 },
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doi = { 10.1007/978-3-642-02674-4_18 },
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[DHH+08]

[PDFBIB](#)

Draws, P., Hesseler, F., Hoffmann, K., Abel, D., Schmitz, D., Polzer, A., and Kowalewski, S., "Entwicklung einer Luftpfadregelung am Dieselmotor unter Berücksichtigung nichtfunktionaler Anforderungen", in *Proc. Steuerung und Regelung von Fahrzeugen und Motoren : AUTOREG 2008 ; 4. Fachtagung Baden-Baden, 12. und 13. Februar 2008 / VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik*, Düsseldorf, 2008 in VDI-Berichte, VDI-Verl., pp. 91-102.

## Entwicklung einer Luftpfadregelung am Dieselmotor unter Berücksichtigung nichtfunktionaler Anforderungen

### Bibtex entry :

```

@inproceedings { DHH+08,
  author = { Draws, Peter and Hesseler, Frank and Hoffmann, Kai and
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    VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik },
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  pages = { 91-102 },
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[DHS+08]

[PDFBIB](#)

Draws, P., Heßeler, F., Schmitz, D., Polzer, A., Kowalewski, S., and Abel, D., "Entwicklungsprozess für eine Luftpfadregelung am Dieselmotor unter Berücksichtigung nichtfunktionaler Anforderungen", in *Proc. Moderne Elektronik im Kraftfahrzeug III : Systeme von morgen - technische Innovationen und Entwicklungstrends ; [28. Tagung 'Elektronik im Kraftfahrzeug' vom Haus der Technik Essen e.V. in München (i.e. Dresden!)] / Bernard Bäker (Hrsg.) u. 46 Mitautoren*, Renningen, 2008 in Haus der Technik Fachbuch, Expert-Verl., pp.

167-179.

## Entwicklungsprozess für eine Luftpfadregelung am Dieselmotor unter Berücksichtigung nichtfunktionaler Anforderungen

### Bibtex entry :

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@inproceedings { DHS+08,  
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  booktitle = { Moderne Elektronik im Kraftfahrzeug III : Systeme von  
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  pages = { 167-179 },  
  series = { Haus der Technik Fachbuch },  
  year = { 2008 },  
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[SDH+08]

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Schmitz, D., Drews, P., Heßeler, F., Jarke, M., Kowalewski, S., Palczynski, J., Polzer, A., Reke, M., and Rose, T., "Modellbasierte Anforderungserfassung für softwarebasierte Regelungen", in *Proc. Software Engineering 2008 : Fachtagung des GI-Fachbereichs Softwaretechnik*, 18. - 22.02.2008 in München / *Gesellschaft für Informatik (GI). Korbinian Herrmann; Bernd Bruegge (Hrsg.)*, Bonn, 2008 in GI-Edition : Proceedings, Ges. für Informatik, pp. 257-271.

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@inproceedings { SDH+08,  
  author = { Schmitz, Dominik and Drews, Peter and He{\ss}eler,  
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