

Dr. rer. nat. Andreas Polzer

Ich bin Mitarbeiter des Lehrstuhls für Informatik 11 seit Januar 2006. Mein Aufgabengebiet umfasst die Bearbeitung eines Forschungsprojekts, das die Verzahnung von Regelungs- und Softwaretechnik beinhaltet (ZAMOMO).

Mein Schwerpunkt bei der Forschung liegt bei der modellbasierten Entwicklung eingebetteter System. Die modellbasierten Methoden, welche unter anderem Matlab / Simulink umfasst betrachte ich vor allem im Hinblick auf Produktlinienansätze. Ich verwende Modelltransformationen um Analysen und Bewertungen von variantenreichen Modellen vornehmen zu können. Zusätzlich habe ich mich mit dem Bereich der nichtfunktionalen Anforderungen und deren Integration in den Entwicklungsprozess von modellbasiert entwickelten eingebetteten Systemen beschäftigt.



Kontakt

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Mein öffentlicher Schlüssel kann [hier](#) heruntergeladen werden!

Forschung

- ZAMOMO
 - Verzahnung modellbasierter Softwareentwicklung und basiertem Reglerentwurf
 - www.zamomo.de
 - Innerhalb des ZAMOMO forsche ich an der Entwicklung einer Architektur für ein Rapid Control Prototyping System.
- Automotive Experimentierplattform
- Modellbasierte Entwicklung mit EMF, ATL und ETL
- Variantenreiche Entwicklung

Lehre

- Sommersemester 2006
 - Sicherheits- und Zuverlässigkeitstechnik
- Wintersemester 2006/07
 - Technische Informatik
- Sommersemester 2007
 - Sicherheits- und Zuverlässigkeitstechnik
- Wintersemester 2007/08
 - Technische Informatik
- Wintersemester 2008/09
 - Seminar [Fahrerassistenzsysteme und modellbasierte Entwicklung im Automobilbereich](#)
- Wintersemester 2009/10
 - Praktikum: Akkustandserfassung eines Elektrorollstuhls
- Wintersemester 2010/11
 - Praktikum: [Modellbasierte Analyse von Simulinkmodellen](#)

Veröffentlichungen

[Pol15]

[PDF](#) [BIB](#)

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 :

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@phdthesis { Pol15,
  author = { Polzer, Andreas },
  othercontributors = { Kowalewski, Stefan and Lichter, Horst },
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    Entwicklung
      von eingebetteten Systemen unter Berücksichtigung
        regelungs- und softwaretechnischer Anforderungen },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  school = { Zugl.: Aachen, Techn. Hochsch. },
  series = { Aachener Informatik-Berichte },
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[PBD+12]

[PDF](#)[BIB](#)

Pleuss, 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 :

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@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
feature
    level },
  journal = { The journal of systems and software : JSS },
  publisher = { Elsevier [u.a.] },
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  typ = { PUB:(DE-HGF)16 },
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  url = { http://publications.rwth-aachen.de/record/211937 },
}

```

[MPB+11]

[PDF](#)[BIB](#)

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 :

```
@inproceedings { MPB+11,  
  author = { Merschen, Daniel and Polzer, Andreas and Botterweck,  
            G{"o"}tz and Kowalewski, Stefan },  
  title = { Experiences of Applying Model-based Analysis to Support  
the  
            Development of Automotive Software Product Lines },  
  booktitle = { VaMoS 11 : fifth International Workshop on  
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            Modelling of Software-intensive Systems ; 27 -29 January,  
            2011, Namur, Belgium ; proceedings / Krzysztof Czarnecki ...  
            (eds.) },  
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  pages = { 141-150 },  
  year = { 2011 },  
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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,  
            G{"o"}tz and Pleuss, Andreas and Thomas, Jacques and  
            Hedenetz, Bernd and Kowalewski, Stefan },  
  title = { Managing Complexity and Variability of a Model-based  
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  journal = { Innovations in systems and software engineering },  
  publisher = { Springer },  
  pages = { 1-15 },
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volume = { 2011 },
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issn = { 1614-5054 },
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typ = { PUB:(DE-HGF)16 },
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url = { http://publications.rwth-aachen.de/record/191115 },
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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 :

```

@inproceedings { BPD+10,
  author = { Botterweck, G{"o"}tz and Pleuss, Andreas and Dhungana,
    Deepak and Polzer, Andreas and Kowalewski, Stefan },
  title = { EvoFM: Feature-driven Planning of Product-line Evolution
},
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    Town, South Africa },
  publisher = { ACM },
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Software
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  doi = { 10.1145/1808937.1808941 },
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  reportid = { RWTH-CONV-196793 },
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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,
  author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,
    Stefan },
  title = { Variability and Evolution in Model-based Engineering of
    Embedded Systems },
  booktitle = { 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.] },
  publisher = { fortiss },
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    Entwicklung
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  },
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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, Stefan },
  title = { Featureoriented modelling of product line evolution },
  pages = { 25 Seiten },
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  typ = { PUB:(DE-HGF)29 },
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cin = { 122810 / 120000 },  
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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,  
  author = { Polzer, Andreas and Merschen, Daniel and Thomas, Jacques  
and  
  Hedenetz, Bernd and Kowalewski, Stefan },  
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  publisher = { ACM },  
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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, Germany, 2009 in *CEUR Workshop Proceedings*, RWTH Aachen, pp. 107-121.

Using higher-order transformations to derive variability mechanism

Bibtex entry :

```
@inproceedings { BPK09,  
  author = { Botterweck, G{\\"o}tz and Polzer, Andreas and Kowalewski,  
            Stefan },  
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            Embedded Systems ; held as part of the 2009 International  
Conference on Model Driven Engineering Languages and Systems  
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by: Stefan Van Baelen ... },  
  publisher = { RWTH Aachen },  
  pages = { 107-121 },  
  series = { CEUR Workshop Proceedings },  
  year = { 2009 },  
  address = { Aachen, Germany },  
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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 :

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@inproceedings { BPK09a,  
  author = { Botterweck, G{\\"o}tz and Polzer, Andreas and Kowalewski,  
            Stefan },  
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  booktitle = { Proceedings of the 13th International Software  
Product Line
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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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[BPP+09]

[PDF](#)BIB

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,
  author = { Botterweck, G{\\"o}tz and Pleuss, Andreas and Polzer,
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  url = { http://publications.rwth-aachen.de/record/100436 },
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[PBW+09]

[PDF](#)BIB

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 :

```
@inproceedings { PBW+09,
  author = { Polzer, Andreas and Botterweck, G{"o}tz and Wagnerin,
  Iris
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  title = { Variabilit{"a}t im modellbasierten Engineering von
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der 39.
                Jahrestagung der Gesellschaft f{"u}r Informatik e.V. (GI),
                28.9. - 2.10.2009 in L{"u}beck / Stefan Fischer ... (Hrsg.) },
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  address = { L{"u}beck, Germany },
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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 :

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@inproceedings { PKB09,
  author = { Polzer, Andreas and Kowalewski, Stefan and Botterweck,
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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,
        Matthias and Polzer, Andreas and Palczynski, Jacob and
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    title = { Mapping Requirement Models to Mathematical Models in
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    booktitle = { Model driven architecture - foundations and
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        5th European conference, ECMDA-FA 2009, Enschede, The
        Netherlands, June 23 - 26, 2009 ; proceedings / Richard F.
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    series = { Lecture notes in computer science },
    year = { 2009 },
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    organization = { Model driven architecture - foundations and
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[DHH+08]

[PDF](#)BIB

Drews, 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 = { Drews, Peter and Hesseler, Frank and Hoffmann, Kai and
    Dirk and Schmitz, Dominik and Polzer, Andreas and
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  title = { Entwicklung einer Luftpfadregelung am Dieselmotor unter
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  booktitle = { Steuerung und Regelung von Fahrzeugen und Motoren :
    AUTOREG
    2008 ; 4. Fachtagung Baden-Baden, 12. und 13. Februar 2008 /
    VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik },
  publisher = { VDI-Verl. },
  pages = { 91-102 },
  series = { VDI-Berichte },
  year = { 2008 },
  address = { D{"u"}sseldorf },
  organization = { Steuerung und Regelung von Fahrzeugen und Motoren
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    Fachtagung, Baden-Baden (Germany), 2008-02-12 -2 008-02-13 },
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[DHS+08]

[PDF](#)BIB

Drews, 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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  author = { Drews, Peter and Heßeler, Frank-Josef and Schmitz,
    Dominik and Polzer, Andreas and Kowalewski, Stefan and Abel,
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  title = { Entwicklungsprozess für eine Luftpfadregelung am
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  booktitle = { Moderne Elektronik im Kraftfahrzeug III : Systeme von
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    - technische Innovationen und Entwicklungstrends ; [28.
    Tagung 'Elektronik im Kraftfahrzeug' vom Haus der Technik
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  year = { 2008 },
  address = { Renningen },
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  cin = { 122810 / 416610 / 120000 },
  url = { http://publications.rwth-aachen.de/record/97365 },
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[SDH+08]

PDFBIB

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.

Modellbasierte Anforderungserfassung für softwarebasierte Regelungen

Bibtex entry :

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@inproceedings { SDH+08,  
  author = { Schmitz, Dominik and Drews, Peter and He{\ss}eler,  
    Frank-Josef and Jarke, Matthias and Kowalewski, Stefan and  
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    Gesellschaft f{"u"}r Informatik (GI). Korbinian Herrmann;  
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  publisher = { Ges. f{"u"}r Informatik },  
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  organization = { Software Engineering 2008 : Fachtagung des GI-  
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