

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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Fax +49 241 80 22150

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Office: room 2319 (building H)

Project(s)

- ZAMOMO (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", 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 },  
  title = { Ansatz zur variantenreichen und modellbasierten  
Entwicklung  
  von eingebetteten Systemen unter Ber{"u}cksichtigung  
regelungs- und softwaretechnischer Anforderungen },  
  publisher = { Fachgruppe Informatik, RWTH Aachen University },  
  school = { Zugl.: Aachen, Techn. Hochsch. },  
  series = { Aachener Informatik-Berichte },  
  year = { 2015 },  
  address = { Aachen },
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[PBD+12]

[PDFBIB](#)

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 :

```
@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.] },
  pages = { 2261-2274 },
  volume = { 85 },
  number = { 10 },
  year = { 2012 },
  address = { Amsterdam },
  issn = { 0164-1212 },
  doi = { 10.1016/j.jss.2011.08.008 },
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  url = { http://publications.rwth-aachen.de/record/211937 },
}
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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 :

```
@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  
Variability  
            Modelling of Software-intensive Systems ; 27 -29 January,  
            2011, Namur, Belgium ; proceedings / Krzysztof Czarnecki ...  
            (eds.) },  
  publisher = { ACM },  
  pages = { 141-150 },  
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            Software-intensive Systems, Namur (Belgium), 2011-01-27 -  
            2011-01-29 },  
  doi = { 10.1145/1944892.1944910 },  
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}
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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  
Embedded Software Product Line },  
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publisher = { Springer },
pages = { 1-15 },
volume = { 2011 },
year = { 2011 },
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issn = { 1614-5054 },
doi = { 10.1007/s11334-011-0174-z },
typ = { PUB:(DE-HGF)16 },
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/191115 },
}

```

[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,
  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 },
  booktitle = { PLEASE '10 : Proceedings of the 2010 ICSE Workshop on Product Line Approaches in Software Engineering ; May, Cape Town, South Africa },
  publisher = { ACM },
  pages = { 24-31 },
  year = { 2010 },
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  reportid = { RWTH-CONV-196793 },
  cin = { 122810 / 120000 },
  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 :

```
@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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[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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year = { 2010 },
typ = { PUB:(DE-HGF)29 },
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url = { http://publications.rwth-aachen.de/record/752286 },
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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 },
  title = { View-Supported Rollout and Evolution of Model-Based ECU
Applications },
  booktitle = { 7th International Workshop on Model-based
Methodologies for
Pervasive },
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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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Construction of  
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            Workshop on Model Based Architecting and Construction of  
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            Conference on Model Driven Engineering Languages and Systems  
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            by: Stefan Van Baelen ... },  
  publisher = { RWTH Aachen },  
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  series = { CEUR Workshop Proceedings },  
  year = { 2009 },  
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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,  
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            Stefan },  
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  booktitle = { Proceedings of the 13th International Software  
Product Line
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    California, USA / IEEE Computer Society. John D. McGregor;
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pages = { 52-58 },
year = { 2009 },
address = { Piscataway, NJ },
organization = { 13. International Software Product Line
Conference, San
    Francisco, CA (USA), 2009-08-24 - 2009-08-28 },
typ = { PUB:(DE-HGF)8 },
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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]

[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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  booktitle = { Proceedings of the first International Workshop on  
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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 :

```
@inproceedings { PBW+09,
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    Jahrestagung der Gesellschaft f{"u}r Informatik e.V. (GI),
    28.9. - 2.10.2009 in L{"u}beck / Stefan Fischer ... (Hrsg.) },
  publisher = { Ges. f{"u}r Informatik },
  pages = { 331-331 },
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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,
  G{"o}tz },
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31st International Conference on Software Engineering (ICSE
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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 :

```
@inproceedings { SZR+09,
  author = { Schmitz, Dominik and Zhang, Ming and Rose, Thomas and Jarke, Matthias and Polzer, Andreas and Palczynski, Jacob and Kowalewski, Stefan and Reke, Michael },
  title = { Mapping Requirement Models to Mathematical Models in Control System Development },
  booktitle = { 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.) },
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  series = { Lecture notes in computer science },
  year = { 2009 },
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  organization = { Model driven architecture - foundations and applications : 5. European conference, Enschede (Netherlands), 2009-06-23 - 2009-06-26 },
  doi = { 10.1007/978-3-642-02674-4_18 },
  typ = { PUB:(DE-HGF)7 },
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reportid = { RWTH-CONV-172397 },
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url = { http://publications.rwth-aachen.de/record/99431 },
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[DHH+08]

[PDFBIB](#)

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
    Abel, Dirk and Schmitz, Dominik and Polzer, Andreas and
    Kowalewski, Stefan },
  title = { Entwicklung einer Luftpfadregelung am Dieselmotor unter
    Ber{\u}cksichtigung nichtfunktionaler Anforderungen },
  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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[DHS+08]

[PDFBIB](#)

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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@inproceedings { DHS+08,  
  author = { Drews, Peter and He{\ss}eler, Frank-Josef and Schmitz,  
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  booktitle = { Moderne Elektronik im Kraftfahrzeug III : Systeme von  
morgen  
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  pages = { 167-179 },  
  series = { Haus der Technik Fachbuch },  
  year = { 2008 },  
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  organization = { 28. Tagung 'Elektronik im Kraftfahrzeug',  
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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,
    Frank-Josef and Jarke, Matthias and Kowalewski, Stefan and
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