

# Publikationen

[KBS+19]

[PDFBIB](#)

Kühn, J., Buglowski, M., Stollenwerk, A., Kowalewski, S., Walter, M., Leonhardt, S., Petran, J., Kopp, R., Rossaint, R., and Janisch, T., "Fault Identification in a Blood Pump Using Neural Networks", in *Proc. World Congress on Medical Physics and Biomedical Engineering 2018 : June 3-8, 2018, Prague, Czech Republic (Vol.2) / edited by Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott*, Singapore, 2019 in IFMBE Proceedings, Springer Singapore, pp. 27-32.

## Fault Identification in a Blood Pump Using Neural Networks

### Bibtex entry :

```
@inproceedings { KBS+19,
  author = { K{"u}hn, Jan and Buglowski, Mateusz and Stollenwerk,
    André
      and Kowalewski, Stefan and Walter, Marian and Leonhardt,
      Steffen and Petran, Jan and Kopp, R{"u}dger and Rossaint,
      Rolf and Janisch, Thorsten },
  title = { Fault Identification in a Blood Pump Using Neural
    Networks },
  booktitle = { World Congress on Medical Physics and Biomedical
    Engineering
      2018 : June 3-8, 2018, Prague, Czech Republic (Vol.2) /
      edited by Lenka Lhotska, Lucie Sukupova, Igor Lacković,
      Geoffrey S. Ibbott },
  publisher = { Springer Singapore },
  pages = { 27-32 },
  series = { IFMBE Proceedings },
  year = { 2019 },
  address = { Singapore },
  organization = { IUPESM World Congress on Medical Physics and
    Biomedical
      Engineering, Prague (Czech Republic), 2018-06-03 -
      2018-06-08 },
  doi = { 10.1007/978-981-10-9038-7_6 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2018-231048 },
  cin = { 533000-2 / 122810 / 120000 / 611010 },
  url = { http://publications.rwth-aachen.de/record/751048 },
}
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[KTF19]

## PDFBIB

Khan, A., Thönnessen, D., and Fabian, M., "On-the-fly conformance testing of safety PLC code using QuickCheck". 2019.

## On-the-fly conformance testing of safety PLC code using QuickCheck

### Bibtex entry :

```
@inproceedings { KTF19,
  author = { Khan, Adnan and Th{"o"}nnessen, David and Fabian, Martin
},
  title = { On-the-fly conformance testing of safety PLC code using
  QuickCheck },
  year = { 2019 },
  organization = { 17th IEEE International Conference on Industrial
  Informatics, INDIN'19 Industrial Applications of
  Artificial Intelligence, Helsinki (Finland), 2019-07-22 -
  2019-07-25 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2019-04271 },
  cin = { 122810 / 120000 },
}
```

[PAS+19]

## PDFBIB

Pomprapa, A., Ahmed, W., Stollenwerk, A., Kowalewski, S., and Leonhardt, S., "Deep Learning of Arrhythmia Analysis Based on Convolutional Neural Network", *International journal of bioelectromagnetism : IJBEM*, vol. 21, iss. 1, pp. 48-58, 2019

## Deep Learning of Arrhythmia Analysis Based on Convolutional Neural Network

### Bibtex entry :

```
@article { PAS+19,
  author = { Pomprapa, Anake and Ahmed, Waqar and Stollenwerk, André
and
  Kowalewski, Stefan and Leonhardt, Steffen },
  title = { Deep Learning of Arrhythmia Analysis Based on
Convolutional
  Neural Network },
  journal = { International journal of bioelectromagnetism : IJBEM },
  publisher = { International Society for Bioelectromagnetism },
  pages = { 48-58 },
  volume = { 21 },
  number = { 1 },
  year = { 2019 },
  address = { Tampere },
}
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issn = { 1456-7857 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2019-03336 },
cin = { 611010 / 122810 / 120000 },
url = { http://www.ijbem.org/volume21/number1/48-58.pdf },
}
```

[TSF+19]

[PDFBIB](#)

Thönnessen, D., Smallbone, N., Fabian, M., Claessen, K., and Kowalewski, S., "Testing Safety PLCs Using QuickCheck". 2019.

## Testing Safety PLCs Using QuickCheck

### Bibtex entry :

```
@inproceedings { TSF+19,
  author = { Th{"o}nnessen, David and Smallbone, Nick and Fabian,
  Martin
    and Claessen, Koen and Kowalewski, Stefan },
  title = { Testing Safety PLCs Using QuickCheck },
  year = { 2019 },
  organization = { IEEE 15th International Conference on Automation
  Science and
    Engineering, Vancouver (Canada), 2019-08-22 - 2019-08-26 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2019-04632 },
  cin = { 122810 / 120000 },
}
```

[AM18]

[PDFBIB](#)

Alrifaae, B. and Maczijekowski, J., "Real-time Trajectory optimization for Autonomous Vehicle Racing using Sequential Linearization", in *Proc. 2018 IEEE Intelligent Vehicles Symposium (IV) : 26-30 June 2018 / [sponsored by the IEEE Intelligent Transportation Systems Society (ITSS)]*, Piscataway, NJ, 2018, IEEE.

## Real-time Trajectory optimization for Autonomous Vehicle Racing using Sequential Linearization

### Bibtex entry :

```
@inproceedings { AM18,
  author = { Alrifaae, Bassam and Maczijekowski, Janis },
  title = { Real-time Trajectory optimization for Autonomous Vehicle
  Racing using Sequential Linearization },
  booktitle = { 2018 IEEE Intelligent Vehicles Symposium (IV) : 26-30
  June
    2018 / [sponsored by the IEEE Intelligent Transportation
    Systems Society (ITSS)] },
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publisher = { IEEE },
year = { 2018 },
address = { Piscataway, NJ },
organization = { 2018 IEEE Intelligent Vehicles Symposium, Changshu
(Peoples
    R China), 2018-06-26 - 2018-06-30 },
doi = { 10.1109/IVS.2018.8500634 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-229489 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/748563 },
}

```

[BFH+18]

[PDFBIB](#)

Bordasch, M., Facchi, C., Heidepriem, S., Jähnert, J., Jung, T., Köllner, C., Kraas, A., Krause, J., Krüning, K., Kugler, A., Maschler, B., Schleicher, C., Siegrist, D., Simon, H., Störmer, C., Thönnessen, D., Wassermann, E., Weyrich, M., Wimmer, T., and Zeller, A., "VDI Status Report Testing of Networked Systems for Industrie 4.0", 2018.

## VDI Status Report Testing of Networked Systems for Industrie 4.0

### Bibtex entry :

```

@techreport { BFH+18,
  author = { Bordasch, Manuel and Facchi, Christian and Heidepriem,
    Sebastian and J{"a}hnert, J{"u}rger and Jung, Tobias and
    K{"o}llner, Christian and Kraas, Alexander and Krause, Jan
    and Kr{"u}ning, Kai and Kugler, Alexander and Maschler,
    Benjamin and Schleicher, Christian and Siegrist, Daniel and
    Simon, Hendrik and St{"o}rmer, Christoph and
    Th{"o}nnessen, David and Wassermann, Erik and Weyrich,
    Michael and Wimmer, Thomas and Zeller, Andreas },
  title = { VDI Status Report Testing of Networked Systems for
    Industrie
      4.0 },
  pages = { 1-20 },
  year = { 2018 },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-CONV-236295 },
  cin = { 122810 / 120000 },
  url = {
https://m.vdi.de/vdi-status-report-testing-of-networked-systems-for-industrie40/ },
}

```

[BHK18]

[PDFBIB](#)

Bohlender, D., Hamm, D., and Kowalewski, S., "Cycle-Bounded Model Checking of PLC Software

via Dynamic Large-Block Encoding", in *Proc. Applied computing 2018 : the 33rd Annual ACM Symposium on Applied Computing : Pau, France, April 9-13, 2018 / sponsored by: ACM Special Interest Group on Applied Computing ; conference chairs: Hisham M. Haddad (Kennesaw State University, USA), Roger L. Wainwright (University of Tulsa, USA), Richard Chbeir (University of Pau & Pays Adour, France)*, New York, NY, 2018, ACM, pp. 1891-1898.

## Cycle-Bounded Model Checking of PLC Software via Dynamic Large-Block Encoding

### Bibtex entry :

```
@inproceedings { BHK18,
  author = { Bohlander, Dimitri and Hamm, Daniel and Kowalewski,
Stefan },
  title = { Cycle-Bounded Model Checking of PLC Software via Dynamic
Large-Block Encoding },
  booktitle = { Applied computing 2018 : the 33rd Annual ACM
Symposium on
Applied Computing : Pau, France, April 9-13, 2018 /
sponsored by: ACM Special Interest Group on Applied
Computing ; conference chairs: Hisham M. Haddad (Kennesaw
State University, USA), Roger L. Wainwright (University of
Tulsa, USA), Richard Chbeir (University of Pau & Pays Adour,
France) },
  publisher = { ACM },
  pages = { 1891-1898 },
  year = { 2018 },
  address = { New York, NY },
  organization = { 33rd ACM Symposium on Applied Computing, Pau
(France),
2018-04-09 - 2018-04-13 },
  doi = { 10.1145/3167132.3167334 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2018-231950 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752221 },
}
```

[BK18]

[PDFBIB](#)

Bohlander, D. and Kowalewski, S., "Compositional Verification of PLC Software using Horn Clauses and Mode Abstraction", *IFAC-PapersOnLine*, vol. 51, iss. 7, pp. 428-433, 2018

## Compositional Verification of PLC Software using Horn Clauses and Mode Abstraction

### Bibtex entry :

```
@article { BK18,
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```

author = { Bohlender, Dimitri and Kowalewski, Stefan },
title = { Compositional Verification of PLC Software using Horn
        Clauses and Mode Abstraction },
journal = { IFAC-PapersOnLine },
pages = { 428-433 },
volume = { 51 },
number = { 7 },
year = { 2018 },
address = { Laxenburg },
issn = { 2405-8963 },
organization = { 14th IFAC International Workshop on Discrete Event
Systems,
        Castellammare di Stabia (Italia), 2018-05-30 - 2018-06-01 },
doi = { 10.1016/j.ifacol.2018.06.336 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2018-227071 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/730763 },
}

```

[BK18a]

[PDFBIB](#)

Bohlender, D. and Kowalewski, S., "Design and Verification of Restart-Robust Industrial Control Software", in *Proc. Integrated Formal Methods : 14th International Conference, IFM 2018, Maynooth, Ireland, September 5-7, 2018, Proceedings / edited by Carlo A. Furia, Kirsten Winter*, Cham, 2018 in Lecture Notes in Computer Science, Springer International Publishing, pp. 47-68.

## Design and Verification of Restart-Robust Industrial Control Software

### Bibtex entry :

```

@inproceedings { BK18a,
  author = { Bohlender, Dimitri and Kowalewski, Stefan },
  title = { Design and Verification of Restart-Robust Industrial
Control
        Software },
  booktitle = { Integrated Formal Methods : 14th International
Conference,
        IFM 2018, Maynooth, Ireland, September 5-7, 2018,
        Proceedings / edited by Carlo A. Furia, Kirsten Winter },
  publisher = { Springer International Publishing },
  pages = { 47-68 },
  series = { Lecture Notes in Computer Science },
  year = { 2018 },
  address = { Cham },
  organization = { 14th International Conference on integrated Formal
Methods },
  doi = { 10.1007/978-3-319-98938-9_4 },
  typ = { PUB:(DE-HGF)7 },
}

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reportid = { RWTH-2018-231948 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752219 },
}

```

[CMW+18]

[PDFBIB](#)

Chomicz, P., Müller-Lerwe, A., Wegner, G., Busch, R., and Kowalewski, S., "Controlled Natural Languages for Hazard Analysis and Risk Assessment", in *Proc. Controlled Natural Language : Proceedings of the Sixth International Workshop, CNL 2018, Maynooth, Co. Kildare, Ireland, August 27-28, 2018 / edited by Brian Davis (Maynooth University, Ireland), C. Maria Keet (University of Cape Town, South Africa) and Adam Wyner (Swansea University, United Kingdom)*, Amsterdam, 2018 in *Frontiers in artificial intelligence and applications*, IOS Press, pp. 41-51.

## Controlled Natural Languages for Hazard Analysis and Risk Assessment

### Bibtex entry :

```

@inproceedings { CMW+18,
  author = { Chomicz, Paul and M{"u}ller-Lerwe, Armin and Wegner,
    G{"o}tz-Philipp and Busch, Rainer and Kowalewski, Stefan },
  title = { Controlled Natural Languages for Hazard Analysis and Risk
    Assessment },
  booktitle = { Controlled Natural Language : Proceedings of the
    Sixth
    International Workshop, CNL 2018, Maynooth, Co. Kildare,
    Ireland, August 27-28, 2018 / edited by Brian Davis
    (Maynooth University, Ireland), C. Maria Keet (University of
    Cape Town, South Africa) and Adam Wyner (Swansea University,
    United Kingdom) },
  publisher = { IOS Press },
  pages = { 41-51 },
  series = { Frontiers in artificial intelligence and applications },
  year = { 2018 },
  address = { Amsterdam },
  organization = { 6th International Workshop on Controlled Natural
    Language,
    Kildare (Ireland), 2018-08-27 - 2018-08-28 },
  doi = { 10.3233/978-1-61499-904-1-41 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236286 },
  cin = { 122810 / 120000 },
  url = {
    http://publications.rwth-aachen.de/record/752264/files/752264.pdf },
}

```

[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 },
  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 },
}
```

[GSA+18]

[PDFBIB](#)

Grochowski, M., Schweigler, M., Alrifaaee, B., and Kowalewski, S., "A GPS-aided Inertial Navigation System for Vehicular Navigation using a Smartphone", *IFAC-PapersOnLine*, vol. 51, iss. 10, pp. 121-126, 2018

## A GPS-aided Inertial Navigation System for Vehicular Navigation using a Smartphone

### Bibtex entry :

```
@article { GSA+18,
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```

author = { Grochowski, Marco and Schweigler, Martin and Alrifaae,
           Bassam and Kowalewski, Stefan },
title = { A GPS-aided Inertial Navigation System for Vehicular
          Navigation using a Smartphone },
journal = { IFAC-PapersOnLine },
pages = { 121-126 },
volume = { 51 },
number = { 10 },
year = { 2018 },
address = { Laxenburg },
issn = { 2405-8963 },
organization = { 3rd IFAC Conference on Embedded Systems,
Computational
                 Intelligence and Telematics in Control, Farod (Portugal),
                 2018-06-06 - 2018-06-08 },
doi = { 10.1016/j.ifacol.2018.06.247 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2018-227583 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/731577 },
}

```

[KRG+18]

[PDFBIB](#)

Kriebel, S., Richenhagen, J. M., Granrath, C., and Kugler, C., "Systems engineering with SysML : The path to the future?", *MTZ worldwide*, vol. 79, iss. 5, pp. 44-47, 2018

## Systems engineering with SysML : The path to the future?

### Bibtex entry :

```

@article { KRG+18,
  author = { Kriebel, Stefan and Richenhagen, Johannes Martin and
            Granrath, Christian and Kugler, Christopher },
  title = { Systems engineering with SysML : The path to the future?
},
  journal = { MTZ worldwide },
  publisher = { Springer Fachmedien },
  pages = { 44-47 },
  volume = { 79 },
  number = { 5 },
  year = { 2018 },
  address = { Wiesbaden },
  issn = { 2192-9114 },
  doi = { 10.1007/s38313-018-0030-8 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2018-227692 },
  cin = { 412310 / 121510 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/731737 },
}

```

}

[KRG+18a]

[PDFBIB](#)

Kriebel, S., Richenhagen, J. M., Granrath, C., and Kugler, C., "Systems Engineering mit SysML : Der Weg in die Zukunft?", *Motortechnische Zeitschrift : MTZ*, vol. 79, iss. 5, pp. 48-53, 2018

## Systems Engineering mit SysML : Der Weg in die Zukunft?

### Bibtex entry :

```
@article { KRG+18a,
  author = { Kriebel, Stefan and Richenhagen, Johannes Martin and
            Granrath, Christian and Kugler, Christopher },
  title = { Systems Engineering mit SysML : Der Weg in die Zukunft?
},
  journal = { Motortechnische Zeitschrift : MTZ },
  publisher = { Springer Fachmedien },
  pages = { 48-53 },
  volume = { 79 },
  number = { 5 },
  year = { 2018 },
  address = { Wiesbaden },
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  doi = { 10.1007/s35146-018-0025-7 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2018-227695 },
  cin = { 412310 / 122810 / 120000 / 121510 },
  url = { http://publications.rwth-aachen.de/record/731745 },
}
```

[KSK+18]

[PDFBIB](#)

Kühn, J., Stollenwerk, A., Kowalewski, S., Fabry, G., Grzanna, T., Doorschodt, B., Tolba, R. H., Rossaint, R., and Bleilevens, C., "A long-term setup for kidney perfusion." 2018.

## A long-term setup for kidney perfusion

### Bibtex entry :

```
@inproceedings { KSK+18,
  author = { K{"u}hn, Jan and Stollenwerk, André and Kowalewski,
            Stefan
            and Fabry, Gregor and Grzanna, Tim and Doorschodt, Benedict
            and Tolba, René H. and Rossaint, Rolf and Bleilevens,
            Christian },
  title = { A long-term setup for kidney perfusion },
  year = { 2018 },
  organization = { 52nd Annual Conference of the German Society for
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```
Biomedical
  Engineering, Aachen (Germany), 2018-09-26 - 2018-09-28 },
  typ = { PUB:(DE-HGF)6 },
  reportid = { RWTH-CONV-236288 },
  cin = { 122810 / 120000527000-2 / 9210105 },
  url = { http://publications.rwth-aachen.de/record/752261 },
}
```

[MVC+18]

[PDFBIB](#)

Merchant, F., Vatwani, T., Chattopadhyay, A., Raha, S., Nandy, S. K., and Narayan, R., "Efficient Realization of Householder Transform Through Algorithm-Architecture Co-Design for Acceleration of QR Factorization", *IEEE transactions on parallel and distributed systems*, vol. 29, iss. 8, pp. 1707-1720, 2018

## Efficient Realization of Householder Transform Through Algorithm-Architecture Co-Design for Acceleration of QR Factorization

**Bibtex entry :**

```
@article { MVC+18,
  author = { Merchant, Farhad and Vatwani, Tarun and Chattopadhyay,
    Anupam and Raha, Soumyendu and Nandy, S. K. and Narayan,
    Ranjani },
  title = { Efficient Realization of Householder Transform Through
    Algorithm-Architecture Co-Design for Acceleration of QR
    Factorization },
  journal = { IEEE transactions on parallel and distributed systems
},
  publisher = { IEEE },
  pages = { 1707-1720 },
  volume = { 29 },
  number = { 8 },
  year = { 2018 },
  address = { New York, NY },
  issn = { 1045-9219 },
  doi = { 10.1109/TPDS.2018.2803820 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2018-227400 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/731326 },
}
```

[OK18]

[PDFBIB](#)

Obster, M. and Kowalewski, S., "A live static code analysis architecture for PLC software", 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. 4.

## A live static code analysis architecture for PLC software

### Bibtex entry :

```
@inproceedings { OK18,
  author = { Obster, Mathias and Kowalewski, Stefan },
  title = { A live static code analysis architecture for PLC software
},
  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 = { 4 Seiten },
  series = { IEEE International Conference on Emerging Technologies
and
  Factory Automation-ETFA },
  year = { 2018 },
  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.2017.8247707 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2018-223453 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/722219 },
}
```

[PAS+18]

[PDFBIB](#)

Pomprapa, A., Ahmed, W., Stollenwerk, A., Kowalewski, S., Uguz, D. U., and Leonhardt, S., "Arrhythmia Analysis in a Non-contact cECG Chair using Convolutional Neural Network", *International journal of bioelectromagnetism : IJBEM*, vol. 20, iss. 1, pp. 47-50, 2018

## Arrhythmia Analysis in a Non-contact cECG Chair using Convolutional Neural Network

### Bibtex entry :

```
@article { PAS+18,
  author = { Pomprapa, Anake and Ahmed, Waqar and Stollenwerk, André
and
  Kowalewski, Stefan and Uguz, Durmus Umutcan and Leonhardt,
Steffen },
  title = { Arrhythmia Analysis in a Non-contact cECG Chair using
Convolutional Neural Network },
  journal = { International journal of bioelectromagnetism : IJBEM },
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publisher = { International Society for Bioelectromagnetism },
pages = { 47-50 },
volume = { 20 },
number = { 1 },
year = { 2018 },
address = { Tampere },
issn = { 1456-7865 },
organization = { 11th International Conference on
Bioelectromagnetism, Aachen
(Germany), 2018-05-23 - 2018-05-25 },
doi = { 10.18154/RWTH-CONV-224903 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-224903 },
cin = { 611010 / 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/723536/files/723536.pdf },
}

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[PAS+18a]

[PDFBIB](#)

Pomprapa, A., Ahmed, W., Sayani, M. S., Stollenwerk, A., Kowalewski, S., and Leonhardt, S., "Classification of Obstructive Sleep Apnea Using Machine Learning", *American journal of respiratory and critical care medicine*, vol. 197, iss. Abstract Issue, p. 1, 2018

## Classification of Obstructive Sleep Apnea Using Machine Learning

### Bibtex entry :

```

@article { PAS+18a,
author = { Pomprapa, Anake and Ahmed, W. and Sayani, M. S. and
Stollenwerk, André and Kowalewski, Stefan and Leonhardt,
Steffen },
title = { Classification of Obstructive Sleep Apnea Using Machine
Learning },
journal = { American journal of respiratory and critical care
medicine },
publisher = { American Thoracic Society },
pages = { 1 Seite },
volume = { 197 },
number = { Abstract Issue },
year = { 2018 },
address = { New York, NY },
issn = { 0003-0805 },
organization = { International Conference of the American-Thoracic-
Society,
San Diego, CA (USA), 2018-05-18 - 2018-05-23 },
typ = { PUB:(DE-HGF)1 },
reportid = { RWTH-2018-231113 },
cin = { 611010 / 122810 / 120000 },
}

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url = {
https://www.atsjournals.org/doi/abs/10.1164/ajrccm-conference.2018.197.1\_MeetingAbstracts.A7449 },
}

```

[SBK18]

[PDFBIB](#)

Stollenwerk, A., Buglowski, M., and Kühn, J., "Mock loop for bubble generation in a centrifugal blood pump for fault simulation", *Current Directions in Biomedical Engineering*, vol. 4, iss. 1, pp. 33-36, 2018

## Mock loop for bubble generation in a centrifugal blood pump for fault simulation

### Bibtex entry :

```

@article { SBK18,
  author = { Stollenwerk, André and Buglowski, Mateusz and K{"u}hn, Jan },
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```

[SGT+18]

[PDFBIB](#)

Schweigler, M., Grochowski, M., Tamrakar, S., and Kowalewski, S., "Ground Surface Pattern Recognition with Hidden Markov Models for Low Cost Positioning Improvement", in *Proc. 8th International Conference on Pattern Recognition Systems (ICPRS 2017) : 11-13 July 2017*, [Stevenage], 2018, IET, pp. 1-6.

## Ground Surface Pattern Recognition with Hidden Markov Models for Low Cost Positioning Improvement

**Bibtex entry :**

```
@inproceedings { SGT+18,
  author = { Schweigler, Martin and Grochowski, Marco and Tamrakar,
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    Recognition Systems,
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  typ = { PUB:(DE-HGF)7 },
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  url = { http://publications.rwth-aachen.de/record/752258 },
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```

[SHS+18]

[PDFBIB](#)

Smieschek, M. T., Hinrichs, T., Stollenwerk, A., Kowalewski, S., and Preuß, R., "A New Condition Indicator for Slow-Rotating Roller Chains based on the Angle and Torque of the Driving Motor", in *Proc. 2018 IEEE 14th International Conference on Automation Science and Engineering (CASE) : Munich, Germany, August 20-24, 2018*, Piscataway, NJ, 2018, IEEE, pp. 642-644.

## A New Condition Indicator for Slow-Rotating Roller Chains based on the Angle and Torque of the Driving Motor

**Bibtex entry :**

```
@inproceedings { SHS+18,
  author = { Smieschek, Manfred Thomas and Hinrichs, Timo and
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[SK18]

[PDFBIB](#)

Simon, H. and Kowalewski, S., "Mode-Aware Concolic Testing for PLC Software", in *Proc. Integrated formal methods : 14th International Conference, IFM 2018, Maynooth, Ireland, September 5-7, 2018 : proceedings / Carlo A. Furia, Kirsten Winter (eds.)*, Cham, 2018 in *Lecture notes in computer science*, Springer, pp. 367-376.

## Mode-Aware Concolic Testing for PLC Software

### Bibtex entry :

```
@inproceedings { SK18,
author = { Simon, Hendrik and Kowalewski, Stefan },
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proceedings / Carlo A. Furia, Kirsten Winter (eds.) },
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url = { https://doi.org/10.1007/978-3-319-98938-9 },
}
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[STK18]

[PDFBIB](#)

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@article { STK18,
  author = { Simon, Hendrik and Triefenbach, Lucas and Kowalewski,
Stefan },
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},
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Castellammare
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752265 },
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[Ter18]

[PDFBIB](#)

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### Bibtex entry :

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@phdthesis { Ter18,
  author = { Terber, Matthias },
  othercontributors = { Kowalewski, Stefan and Rumpe, Bernhard Dieter
},
  title = { Real-world deployment and evaluation of synchronous
programming in reactive embedded systems },
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  pages = { 1 Online-Ressource (xvi, 134 Seiten) : Illustrationen },
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http://publications.rwth-aachen.de/record/749610/files/749610.pdf },
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```

[TK18]

[PDFBIB](#)

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### Bibtex entry :

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@article { TK18,
author = { Th{"o}nnessen, David and Kowalewski, Stefan },
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Einsatz von SPS-Sprachen zur Testfallbeschreibung },
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url = { http://publications.rwth-aachen.de/record/727012 },
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[TK18a]

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# Using PLC Programming Languages for Test-Case Specification of Hardware-in-the-loop Tests

## Bibtex entry :

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@inproceedings { TK18a,
  author = { Th{\"}nnessen, David and Kowalewski, Stefan },
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[TRR+18]

[PDFBIB](#)

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## A concept for PLC hardware-in-the-loop testing using an extension of structured text

## Bibtex entry :

```
@inproceedings { TRR+18,
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[TRR+18a]

[PDFBIB](#)

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### Bibtex entry :

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@article { TRR+18a,
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  url = { http://publications.rwth-aachen.de/record/731576 },
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[TRR+18b]

[PDFBIB](#)

Thönnessen, D., Reinker, N., Rakel, S., Svetlakov, A., and Kowalewski, S., "Correctness Properties and Exemplified Applicability of a Signal Matching Algorithm with Multidimensional Tolerance Specifications", in *Proc. 2018 IEEE 14th International Conference on Automation Science and Engineering (CASE) : Munich, Germany, August 20-24, 2018*, Piscataway, NJ, 2018, IEEE, pp. 1197-1202.

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@inproceedings { TRR+18b,
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[UVS+18]

[PDFBIB](#)

Ulewicz, S., Vogel-Heuser, B., Simon, H., Bohlender, D., Obster, M., and Kowalewski, S., "A priori test coverage estimation for automated production systems : Using generated behavior models for coverage calculation", 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. 4.

## A priori test coverage estimation for automated production systems : Using generated behavior models for coverage calculation

### Bibtex entry :

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@inproceedings { UVS+18,
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[WKJ+18]

[PDFBIB](#)

Walter, M., Kühn, J., Janisch, T., Petran, J., Kopp, R., and Leonhardt, S., "Cooperative automation of extracorporeal gas exchange and artificial ventilation", in *Proc. World Congress on Medical Physics & Biomedical Engineering : June 3-8, 2018, Prague, Czech Republic : IUPESM Page 2018 : Book of Abstracts*, 2018, pp. 663-664.

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### Bibtex entry :

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@inproceedings { WKJ+18,
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and
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[WLB+18]

PDFBIB

Woopen, T., Lampe, B., Böddeker, T., Eckstein, L., Kampmann, A., Alrifaae, B., Kowalewski, S., Moormann, D., Stolte, T., Jatzkowski, I., Maurer, M., Möstl, M., Ernst, R., Ackermann, S., Amersbach, C., Winner, H., Püllen, D., Katzenbeisser, S., Leinen, S., Becker, M., Stiller, C., Furmans, K., Bengler, K., Diermeyer, F., Lienkamp, M., Keilhoff, D., Reuss, H., Buchholz, M., Dietmayer, K., Lategahn, H., Siepenkötter, N., Elbs, M., v. Hinüber, E., Dupuis, M., and Hecker, C., "UNICARagil - Disruptive Modular Architectures for Agile, Automated Vehicle Concepts", in *Proc. { 27. Aachener Kolloquium Fahrzeug- und Motorentechnik : October 8th - 10th, 2018 - Eurogress Aachen, Aachen, 2018, Aachener Kolloquium Fahrzeug- und Motorentechnik GbR, pp. 663-694.*

## UNICARagil - Disruptive Modular Architectures for Agile, Automated Vehicle Concepts

### Bibtex entry :

```

@inproceedings { WLB+18,
    author = { Woopen, Timo and Lampe, Bastian and B{"o}ddeker, Torben
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    Eckstein, Lutz and Kampmann, Alexandru and Alrifaae, Bassam
and Kowalewski, Stefan and Moormann, Dieter and Stolte,
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M{"o}stl, Mischa and Ernst, Rolf and Ackermann, Stefan and
Amersbach, Christian and Winner, Hermann and P{"u}llen,
Dominik and Katzenbeisser, Stefan and Leinen, Stefan and
Becker, Matthias and Stiller, Christoph and Furmans, Kai and
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Michael and Dietmayer, Klaus and Lategahn, Henning and

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Siepenk{\o}tter, Norbert and Elbs, Martin and v.
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```

[WSA+18]

[PDFBIB](#)

Winter, A., Stäubert, S., Ammon, D., Aiche, S., Beyan, O. D., Bischoff, V., Daumke, P., Decker, S. J., Funkat, G., Gewehr, J. E., de Greiff, A., Haferkamp, S. D., Hahn, U., Henkel, A., Kirsten, T., Klöss, T., Lippert, J., Löbe, M., Lowitsch, V., Maassen, O., Maschmann, J., Meister, S., Mikolajczyk, R., Nüchter, M., Pletz, M. W., Rahm, E., Riedel, M., Saleh, K., Schuppert, A., Smers, S., Stollenwerk, A., Uhlig, S., Wendt, T., Zenker, S., Fleig, W., Marx, G., Scherag, A., and Löffler, M., "Smart Medical Information Technology for Healthcare (SMITH) : Data Integration based on Interoperability Standards", *Methods of information in medicine*, vol. 57, iss. S 01, p. e92-e105, 2018

## Smart Medical Information Technology for Healthcare (SMITH) : Data Integration based on Interoperability Standards

### Bibtex entry :

```

@article { WSA+18,
author = { Winter, Alfred and St{\a}ubert, Sebastian and Ammon,
Danny
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Silke Dorothee and Hahn, Udo and Henkel, Andreas and
Kirsten, Toralf and Kl{\"}ss, Thomas and Lippert, J{\"}rg
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Oliver and Maschmann, Jens and Meister, Sven and
Mikołajczyk, Rafael and N{\"}chter, Matthias and Pletz,
Mathias W. and Rahm, Erhard and Riedel, Morris and Saleh,
Kutaiba and Schuppert, Andreas and Smers, Stefan and
Stollenwerk, André and Uhlig, Stefan and Wendt, Thomas and
Zenker, Sven and Fleig, Wolfgang and Marx, Gernot and
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pages = { e92-e105 },
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[AMA17]

[PDFBIB](#)

Alrifaae, B., Maczijekowski, J., and Abel, D., "Sequential Convex Programming MPC for Dynamic Vehicle Collision Avoidance", in *Proc. First Annual IEEE Conference on Control Technology and Applications : Kohala Coast, Hawai'i, August 27-30, 2017 : CCTA 2017 / IEEE, CSS, IEEE Robotics & Automation Society, SICE, Piscataway, NJ, 2017, IEEE*, pp. 2202-2207.

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```

@inproceedings { AMA17,
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Applications : Kohala Coast, Hawai'i, August 27-30, 2017 :
CCTA 2017 / IEEE, CSS, IEEE Robotics & Automation Society,
SICE },
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[BHK17]

[PDFBIB](#)

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## HyReach: A Reachability Tool for Linear Hybrid Systems Based on Support Functions

### Bibtex entry :

```

@inproceedings { BHK17,
    author = { Ben Makhlof, Ibtissem and Hansen, Norman and
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```

[BMK+17]

## PDFBIB

Brendle, C., Mülders, T., Kühn, J., Janisch, T., Kopp, R., Rossaint, R., Stollenwerk, A., Kowalewski, S., Misgeld, B. J. E., Leonhardt, S., and Walter, M., "Physiological closed-loop control of mechanical ventilation and extracorporeal membrane oxygenation", *Biomedizinische Technik*, vol. 62, iss. 2, pp. 199-212, 2017

## Physiological closed-loop control of mechanical ventilation and extracorporeal membrane oxygenation

### Bibtex entry :

```
@article { BMK+17,
  author = { Brendle, Christian and M{"u}lders, Thorsten and
K{"u}hn,
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    Rolf and Stollenwerk, André and Kowalewski, Stefan and
    Misgeld, Berno Johannes Engelbert and Leonhardt, Steffen and
    Walter, Marian },
  title = { Physiological closed-loop control of mechanical
ventilation
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  journal = { Biomedizinische Technik },
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}
```

[CMW+17]

## PDFBIB

Chomicz, P., Müller-Lerwe, A., Wegner, G., Busch, R., and Kowalewski, S., "Towards the Use of Controlled Natural Languages in Hazard Analysis and Risk Assessment", in *Proc. Automotive - Safety & Security 2017*, 2017 in Lecture Notes in Informatics, Gesellschaft für Informatik, pp. 163-174.

## Towards the Use of Controlled Natural Languages in Hazard Analysis and Risk Assessment

### Bibtex entry :

```
@inproceedings { CMW+17,
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author = { Chomicz, Paul and M{"u}ller-Lerwe, Armin and Wegner,
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title = { Towards the Use of Controlled Natural Languages in Hazard
          Analysis and Risk Assessment },
booktitle = { Automotive - Safety & Security 2017 },
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pages = { 163-174 },
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url = { http://publications.rwth-aachen.de/record/752283 },
}

```

[DDK+17]

[PDFBIB](#)

Dankert, J., Dernehl, C., Kusmenko, E., Eckstein, L., Kowalewski, S., and Rumpe, B. D., "RapidCoop - Robuste Architektur durch geeignete Paradigmen für Kooperativ Interagierende Automobile", in *Proc. AAET - Automatisiertes und Vernetztes Fahren : Beiträge zum gleichnamigen 18. Braunschweiger Symposium vom 8. und 9. Februar 2017, Stadthalle, Braunschweig / ITS automotive nord e.V. (Hrsg.)*, Braunschweig, 2017, ITS automotive nord e.V., pp. 225-244.

## RapidCoop - Robuste Architektur durch geeignete Paradigmen für Kooperativ Interagierende Automobile

### Bibtex entry :

```

@inproceedings { DDK+17,
  author = { Dankert, Jens and Dernehl, Christian and Kusmenko,
            Evgeny
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            Beitr{"a}ge
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            e.V. (Hrsg.) },
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Automobile.pdf?PHPSESSID=eb66ba2042d9500e5135d33f6b7575af },
}
```

[DKK17]

[PDFBIB](#)

Dernehl, C., Kühn, J., and Kowalewski, S., "Case studies on automated verification with slope boundaries for block diagrams", *Computer Languages, Systems & Structures*, vol. 54, pp. 528-543, 2017

## Case studies on automated verification with slope boundaries for block diagrams

### Bibtex entry :

```
@article { DKK17,
  author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski,
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}
```

[DNS+17]

[PDFBIB](#)

Dzafic, D., Nicolas, W., Schoonbrood, P., Franke, D., and Kowalewski, S., "Multimodales Dynamisches Routen mit eNav", in *Proc. AGIT Journal für Angewandte Geoinformatik*, 2017, Herbert Wichmann Verlag, VDE VERLAG GMBH, Berlin/Offenbach., pp. 278-287.

## Multimodales Dynamisches Routen mit eNav

**Bibtex entry :**

```
@inproceedings { DNS+17,
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}
```

[DSF+17]

[PDFBIB](#)

Dzafic, D., Schoonbrood, P., Franke, D., and Kowalewski, S., "ENav: A Suitable Navigation System for the Disabled", in *Proc. Ambient Assisted Living : 9. AAL-Kongress, Frankfurt/M, Germany, April 20 - 21, 2016 / edited by Reiner Wichert, Beate Mand*, Cham ; s.l., 2017 in *Advanced Technologies and Societal Change*, Springer International Publishing ; Imprint: Springer, pp. 133-150.

**eNav: A Suitable Navigation System for the Disabled****Bibtex entry :**

```
@inproceedings { DSF+17,
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},
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Frankfurt/M
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cin = { 122810 / 120000 },
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[DWS+17]

[PDFBIB](#)

Dzafic, D., Wagener, N., Schoonbrood, P., Franke, D., and Kowalewski, S., "Multimodal Dynamic Routing for Wheelchairs and Pedestrians", in *Proc. Proceedings International Conference on Intelligent Transport Systems in Theory and Practice, mobil.TUM 2017*, 2017, Elsevier B.V., pp. 1-10.

## Multimodal Dynamic Routing for Wheelchairs and Pedestrians

### Bibtex entry :

```
@inproceedings { DWS+17,
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  pages = { 1-10 },
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  url = { http://publications.rwth-aachen.de/record/752277 },
}
```

[Ger17]

[PDFBIB](#)

Gerlitz, T., "Incremental Integration and Static Analysis of Model-Based Automotive Software Artifacts", PhD Thesis, Aachen, 2017.

## Incremental Integration and Static Analysis of Model-Based Automotive Software Artifacts

### Bibtex entry :

```
@phdthesis { Ger17,
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```

```

title = { Incremental Integration and Static Analysis of Model-
Based
Automotive Software Artifacts },
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Science },
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pages = { 1 Online-Ressource (xv, 191 Seiten) : Diagramme },
series = { Aachener Informatik Berichte },
year = { 2017 },
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doi = { 10.18154/RWTH-2017-08881 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2017-08881 },
cin = { 120000 / 122810 },
url = {
http://publications.rwth-aachen.de/record/706814/files/706814.pdf },
}

```

[HWK+17]

[PDFBIB](#)

Hansen, N., Wiechowski, N., Kugler, A., Kowalewski, S., Rambow, T., and Busch, R., "Model-in-the-Loop and Software-in-the-Loop Testing of Closed-Loop Automotive Software with Arttest", in *Proc. INFORMATIK 2017*, 2017, Maximilian Eibl, Martin Gaedke, pp. 1537-1549.

## Model-in-the-Loop and Software-in-the-Loop Testing of Closed-Loop Automotive Software with Arttest

### Bibtex entry :

```

@inproceedings { HWK+17,
author = { Hansen, Norman and Wiechowski, Norbert and Kugler,
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Closed-Loop Automotive Software with Arttest },
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url = { http://publications.rwth-aachen.de/record/752274 },
}

```

[Kal17]

[PDFBIB](#)

Kalkov, I., "A real-time capable, open-source-based platform for off-the-shelf embedded devices", PhD Thesis, Aachen, 2017.



## A real-time capable, open-source-based platform for off-the-shelf embedded devices

### Bibtex entry :

```
@phdthesis { Kal17,
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[KBS+17]

[PDFBIB](#)

Kühn, J., Brendle, C., Stollenwerk, A., Schweigler, M., Kowalewski, S., Janisch, T., Rossaint, R., Leonhardt, S., Walter, M., and Kopp, R., "Decentralized safety concept for closed-loop controlled intensive care : Supervision of a blood pump during extracorporeal circulation", *Biomedizinische Technik*, vol. 62, iss. 2, pp. 213-224, 2017

## Decentralized safety concept for closed-loop controlled intensive care : Supervision of a blood pump during extracorporeal circulation

### Bibtex entry :

```
@article { KBS+17,
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}
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[KGK17]

[PDFBIB](#)

Kalkov, I., Gurchian, A., and Kowalewski, S., "Explicit prioritization of parallel Intent broadcasts in real-time Android", in *Proc. Concurrency and computation*, Chichester, 2017, vol. 29, Wiley.

## Explicit prioritization of parallel Intent broadcasts in real-time Android

### Bibtex entry :

```
@inproceedings { KGK17,
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2014-10-13 - 2014-10-14 },
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  url = { http://publications.rwth-aachen.de/record/707959 },
}
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[KKR+17]

[PDFBIB](#)

Kugler, C., Kowalewski, S., Richenhagen, J., Maquet, R., and Schloßer, A., "Metrics-based

strategies for quality assurance of automotive embedded software", in *Proc. 17. Internationales Stuttgarter Symposium : Automobil- und Motorentechnik / herausgegeben von Michael Bargende, Hans-Christian Reuss, Jochen Wiedemann*, Wiesbaden, 2017 in Proceedings, Springer Vieweg, pp. 711-730.

## Metrics-based strategies for quality assurance of automotive embedded software

### Bibtex entry :

```
@inproceedings { KKR+17,
  author = { Kugler, Christopher and Kowalewski, Stefan and
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    Automobil- und
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  url = { http://publications.rwth-aachen.de/record/752278 },
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[Leo17]

[PDFBIB](#)

Leonhardt, S., *Special Issue: Smart Life Support*, Berlin [u.a.]: de Gruyter, 2017, vol. 62.

## Special Issue: Smart Life Support

### Bibtex entry :

```
@book { Leo17,
  author = { Leonhardt, Steffen },
  title = { Special Issue: Smart Life Support },
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[NKM+17]

[PDFBIB](#)

Nowack, J., Kugler, C., Maquet, R., Richenhagen, J., and Remelhe, F., "Continuous process for the validation of transmission controls", in *Proc. 16. CTI Symposium*, 2017.

## Continuous process for the validation of transmission controls

### Bibtex entry :

```
@inproceedings { NKM+17,
  author = { Nowack, Jan and Kugler, Christopher and Maquet, Ralf and Richenhagen, Johannes and Remelhe, Filipe },
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}
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[SAB+17]

[PDFBIB](#)

Schupp, S., Ábrahám, E., Ben Makhlof, I., and Kowalewski, S., "HyPro: A C++ Library of State Set Representations for Hybrid Systems Reachability Analysis" Cham: Springer, 2017, vol. 10227, pp. 288-294.

## HyPro: A C++ Library of State Set Representations for Hybrid Systems Reachability Analysis

### Bibtex entry :

```
@inbook { SAB+17,
  author = { Schupp, Stefan and Ábrahám, Erika and Ben Makhlof, Ibtissem and Kowalewski, Stefan },
```

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title = { HyPro: A C++ Library of State Set Representations for
Hybrid
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NFM 2017,
  Moffett Field, CA, USA, May 16-18, 2017 : proceedings /
  Clark Barrett, Misty Davies, Temesghen Kahsai (eds.) },
publisher = { Springer },
pages = { 288-294 },
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Field, CA
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doi = { 10.1007/978-3-319-57288-8_20 },
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}

```

[SKS+17]

[PDFBIB](#)

Stollenwerk, A., Kopp, R., Sehl, F., and Janisch, T., "Tauchcomputerunterstützung durch vernetzte Smart Wearables", *Caisson : Mitteilungen der GTÜM e.V.*, vol. 32, iss. 4, 2017

## Tauchcomputerunterstützung durch vernetzte Smart Wearables

### Bibtex entry :

```

@article { SKS+17,
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  publisher = { GT{"U}M },
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  number = { 4 },
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}

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}

[SPD+17]

[PDFBIB](#)

Schmidt, T., Philippsen, R. T., Dzafic, D., and Ziefle, M., "Watch Out! : User-Centered Feedback Design for a V2X-Smartphone App", in *Proc. Digital Human Modeling. Applications in Health, Safety, Ergonomics, and Risk Management: Health and Safety : 8th International Conference, DHM 2017, Held as Part of HCI International 2017, Vancouver, BC, Canada, July 9-14, 2017, Proceedings, Part II / edited by Vincent G. Duffy*, Cham, 2017 in *Lecture Notes in Computer Science*, Springer International Publishing, pp. 365-383.

## Watch Out! : User-Centered Feedback Design for a V2X-Smartphone App

### Bibtex entry :

```
@inproceedings { SPD+17,
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V2X-Smartphone App },
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Safety,
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International Conference, DHM 2017, Held as Part of HCI
International 2017, Vancouver, BC, Canada, July 9-14, 2017,
Proceedings, Part II / edited by Vincent G. Duffy },
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Interaction,
    Vancouver (Canada), 2017-07-09 - 2017-07-14 },
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}
```

[SSK+17]

[PDFBIB](#)

Smieschek, M. T., Stollenwerk, A., Kowalewski, S., Orlikowsky, T., and Schoberer, M., "Unterstützte Handerkennung in Thermographiebildern zur Validierung der hygienischen Händedesinfektion", in *Proc. Bildverarbeitung für die Medizin 2017 : Algorithmen - Systeme - Anwendungen. Proceedings des Workshops vom 12. bis 14. März 2017 in Heidelberg / herausgegeben von Klaus Hermann Maier-Hein, geb. Fritzsche, Thomas Martin Deserno, geb.*

Lehmann, Heinz Handels, Thomas Tolxdorff, Berlin, Heidelberg, 2017 in Informatik aktuell, Springer Berlin Heidelberg, pp. 147-152.

## Unterstützte Handerkennung in Thermographiebildern zur Validierung der hygienischen Händedesinfektion

### Bibtex entry :

```
@inproceedings { SSK+17,
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Algorithmen -
  Systeme - Anwendungen. Proceedings des Workshops vom 12. bis
  14. M{"a}rz 2017 in Heidelberg / herausgegeben von Klaus
  Hermann Maier-Hein, geb. Fritzsche, Thomas Martin Deserno,
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  pages = { 147-152 },
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  year = { 2017 },
  address = { Berlin, Heidelberg },
  organization = { Bildverarbeitung f{"u}r die Medizin 2017 :
Algorithmen -
  Systeme - Anwendungen, Heidelberg (Germany), 2017-03-12 -
  2017-03-14 },
  doi = { 10.1007/978-3-662-54345-0_35 },
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[SSM+17]

[PDFBIB](#)

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@inproceedings { SSM+17,
  author = { Stollenwerk, André and Sehl, Florian and Marx, Gernot
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  booktitle = { 2017 IEEE 14th International Conference on Wearable
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sponsors: IEEE, EMB },
  publisher = { IEEE },
  pages = { 169-172 },
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  address = { Piscataway, NJ },
  organization = { 2017 IEEE 14th International Conference on
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2017-05-09 - 2017-05-12 },
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[WKK+17]

[PDFBIB](#)

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  author = { Walter, Marian and Kunczik, Janosch and K{"u}hn, Jan
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Steffen },
  title = { Robust control of extracorporeal gas exchange },
  booktitle = { Abstract Book at EMBEC'17 & NBC'17 : the Joint
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    publisher = { BioMediTech Institute and Faculty of Biomedical
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    author = { Wiechowski, Norbert and Rambow, Thomas and Busch, Rainer
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    publisher = { SAE International },
    pages = { 11 },
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[AA16]

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  author = { Alrifaae, Bassam and Abel, Dirk },  
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  booktitle = { European Conference on Computational Optimization  
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  url = { http://publications.rwth-aachen.de/record/689048 },  
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[Ben16]

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  author = { Ben Makhlof, Ibtissem },  
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  title = { Comparative evaluation and improvement of computational  
  approaches to reachability analysis of linear hybrid systems },  
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  school = { RWTH Aachen },  
  pages = { viii, 221 Seiten : Illustrationen, Diagramme },  
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http://publications.rwth-aachen.de/record/571624/files/571624.pdf },  
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[BHK+16]

[PDFBIB](#)

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  author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan
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  Stefan and Leonhardt, Steffen and Walter, Marian and
  Misgeld, Berno Johannes Engelbert },
  title = { Closed-loop control of extracorporeal oxygen and carbon
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  journal = { Control engineering practice },
  publisher = { Elsevier Science },
  pages = { 10 Seiten },
  year = { 2016 },
  address = { Amsterdam [u.a.] },
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[BHK+16a]

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  author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan
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Wardeh, M. N. and Janisch, T. and Kopp, R{"u}dger and
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journal = { Biomedical signal processing and control },
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doi = { 10.1016/j.bspc.2016.08.023 },
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url = { http://publications.rwth-aachen.de/record/678132 },
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[Bia16]

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@phdthesis { Bia16,
author = { Biallas, Sebastian },
othercontributors = { Kowalewski, Stefan and Fay, Alexander },
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model checking and static analysis },
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Diagramme },
series = { Aachener Informatik Berichte },
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url = {
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  author = { Banila, Madalina and Kowalewski, Stefan },
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    Automobilbereich },
  booktitle = { Entwurf komplexer Automatisierungssysteme :
    Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen :
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    Ulrich Jumar, Christian Diedrich (Hrsg.) ; eine Kooperation
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  publisher = { Institut f{"u}r Automation und Kommunikation e.V.
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    (An-Institut der Otto-von-Guericke-Universit{"a}t
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  pages = { 1-10 },
  year = { 2016 },
  address = { Magdeburg },
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    Automatisierungssysteme,
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  typ = { PUB:(DE-HGF)7 },
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}
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  booktitle = { 2016 13th International Workshop on Discrete Event Systems
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[BSK+16]

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    Baden-Baden, 07. und 08. Juni 2016 / VDI/VDE Mess- und
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pages = { 13-14 },
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year = { 2016 },
address = { D{"u"}sseldorf },
organization = { 17. Branchentreff der Mess- und
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/680852 },
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(Herausgeber) },
    publisher = { Albert-Ludwigs-Universit{"a"}t },
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[PDFBIB](#)

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@inproceedings { Der16,
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  year = { 2016 },
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: Joint 21st International Workshop on Formal Methods for
Industrial Critical Systems and 16th International Workshop
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Maurice H. ter Beek, Stefania Gnesi, Alexander Knapp (eds.) },
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  doi = { 10.1007/978-3-319-45943-1 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12021 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680837 },
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[DHK16a]

[PDFBIB](#)

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conference, SEFM 2016, held as part of STAF 2016, Vienna,
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K{"u}hn (eds.) },
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  pages = { 137-154 },
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  doi = { 10.1007/978-3-319-41591-8 },
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[DKK16]

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Model-Driven Engineering, Verification and Validation
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Famelis, Daniel Ratiu, Gehan M. K. Selim },
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[DKS+16]

[PDFBIB](#)

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  author = { Dzafic, Dzenan and Klein-Ridder, Daniel and Schoonbrood,
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    Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner,
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}

[DLS+16]

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  author = { Dzafic, Dzenan and Lahr, Florian and Schoonbrood, Pierre
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  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber:
Prof. Dr.
  Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner,
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  pages = { 298-307 },
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[GHD+16]

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## Artifacts

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  author = { Gerlitz, Thomas and Hansen, Norman and Dernehl,
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  title = { artshop: A Continuous Integration and Quality Assessment
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[GK16]

[PDFBIB](#)

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### Bibtex entry :

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[GK16a]

[PDFBIB](#)

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[GK16b]

[PDFBIB](#)

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[GNK16]

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[GTN+16]

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@inproceedings { GTN+16,
  author = { G{"o}be, Florian and Timmermanns, Thomas and Ney,
  Oliver
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[KBS+16]

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@article { KSB+16,
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[KSB+16]

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  author = { K{"u}hn, Jan and Stollenwerk, Andr{e} and Brendle,
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Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer,
Sibylle Schupp, Andreas Seitz, Andreas Steffens, André
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url = { http://ceur-ws.org/Vol-1559/paper25.pdf },
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[KVS+16]

[PDFBIB](#)

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booktitle = { AUTOMED 2016 : Workshop : Wismar, 22.-23. September
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    Simanski, Dr. Olaf Hagendorf, J{"o}rg Zucknik },
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http://automed2016.hs-wismar.de/wp-content/uploads/2017/02/Kuehn_Inform
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[SK16]

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[SSJ+16]

[PDFBIB](#)

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}
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[SSS16]

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[SSS16a]

[PDFBIB](#)

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Br{"u}gge, J{"o}rn Fahsel, Andrea Herrmann, Anne Hoffmann,
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[TSN+16]

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author = { Th{"o}nnessen, David and Schweigler, Martin and Ney,
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020180081372A1 },
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[WBK+16]

[PDFBIB](#)

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[ZAB+16]

[PDFBIB](#)

Zimmermann, W., Alperowitz, L., Br gge, B., Fahsel, J., Herrmann, A., Hoffmann, A., Krall, A., Landes, D., Lichter, H., Riehle, D., Schaefer, I., Scheuermann, C., Schlaefer, A., Schupp, S., Seitz, A., Steffens, A., Stollenwerk, A., and Wei bach, R., Eds., *Gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2016 (SE-WS 2016)*, Wien, 23.-26. Februar 2016, Aachen: RWTH, 2016.

## Gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016

### Bibtex entry :

```
@proceedings { ZAB+16,
  editor = { Zimmermann, Wolf and Alperowitz, Lukas and Br{\u}gge,
Bernd
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and Krall, Andreas and Landes, Dieter and Lichter, Horst and
Riehle, Dirk and Schaefer, Ina and Scheuermann, Constantin
and Schlaefer, Alexander and Schupp, Sibylle and Seitz,
Andreas and Steffens, Andreas and Stollenwerk, Andr e and
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Wei{\ss}bach, R{"u}diger },
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pages = { 219 Seiten },
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```

[BFS+15]

[PDFBIB](#)

Biallas, S., Friedrich, N., Simon, H., and Kowalewski, S., "Automatic Error Cause Localization of Faulty PLC Programs", *IFAC-PapersOnLine*, vol. 48, iss. 7, pp. 79-84, 2015

## Automatic Error Cause Localization of Faulty PLC Programs

### Bibtex entry :

```

@article { BFS+15,
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doi = { 10.1016/j.ifacol.2015.06.476 },
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}

[BGK15]

[PDFBIB](#)

Ben Makhlof, I., Gan, J., and Kowalewski, S., "A Study on Solving Guard and Invariant Set Intersection in Zonotope-based Reachability of Linear Hybrid Systems", *IFAC-PapersOnLine*, vol. 48, iss. 27, pp. 13-20, 2015

## **A Study on Solving Guard and Invariant Set Intersection in Zonotope-based Reachability of Linear Hybrid Systems**

### **Bibtex entry :**

```
@article { BGK15,
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(USA),
                2015-10-14 - 2015-10-16 },
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[BHK+15]

[PDFBIB](#)

Brendle, C., Hackmack, K., Kühn, J., Wardeh, M. N., Kopp, R., Rossaint, R., Stollenwerk, A., Kowalewski, S., Misgeld, B., Leonhardt, S., and Walter, M., "In silico evaluation of gas transfer estimation during extracorporeal membrane oxygenation", *IFAC-PapersOnLine*, vol. 48, iss. 20, 2015

## **In silico evaluation of gas transfer estimation during extracorporeal membrane oxygenation**

**Bibtex entry :**

```
@article { BHK+15,
  author = { Brendle, Christian and Hackmack, Kay-Florian and
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http://www.sciencedirect.com/science/article/pii/S2405896315020819 },
}
```

[BK15]

[PDFBIB](#)

Ben Makhoulf, I. and Kowalewski, S., "Networked Cooperative Platoon of Vehicles for Testing Methods and Verification Tools"EasyChair, 2015, vol. 34, pp. 37-42.

## Networked Cooperative Platoon of Vehicles for Testing Methods and Verification Tools

**Bibtex entry :**

```
@inbook { BK15,
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atoon_of_Vehicles_for_Testing_Methods_and_Verification_Tools },
}

```

[BK15a]

[PDFBIB](#)

Ben Makhlof, I. and Kowalewski, S., "Optimizing Safe Control of a Networked Platoon of Trucks Using Reachability"EasyChair, 2015, vol. 34, pp. 169-179.

## Optimizing Safe Control of a Networked Platoon of Trucks Using Reachability

### Bibtex entry :

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@inbook { BK15a,
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http://www.easychair.org/publications/download/Optimizing_Safe_Control_
of_a_Networked_Platoon_of_Trucks_Using_Reachability },
}

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[BSK+15]

[PDFBIB](#)

Biallas, S., Simon, H., Kowalewski, S., Hauck-Stattelmann, S., and Schlich, B., "Automatische

Testfallgenerierung für SPS-Programme mittels Zeilenüberdeckung" Düsseldorf: VDI, 2015, vol. 2258,2, pp. 95-106.

## Automatische Testfallgenerierung für SPS-Programme mittels Zeilenüberdeckung

### Bibtex entry :

```
@inbook { BSK+15,
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Automatisierungstechnik ; Kongresshaus Baden-Baden, 11. und
12. Juni 2015 / VDI/VDE-Gesellschaft Mess- und
Automatisierungstechnik. - Bd. 1 },
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Automation 2015, Baden-Baden (Germany), 2015-06-11 -
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```

[CSB+15]

[PDFBIB](#)

Chen, X., Schupp, S., Ben Makhlof, I., Ábrahám, E., Frehse, G., and Kowalewski, S., "A Benchmark Suite for Hybrid Systems Reachability Analysis" Cham: Springer, 2015, vol. 9058, pp. 408-414.

## A Benchmark Suite for Hybrid Systems Reachability Analysis

### Bibtex entry :

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@inbook { CSB+15,
  author = { Chen, Xin and Schupp, Stefan and Ben Makhlof, Ibtissem
and
```

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    Abraham, Erika and Frehse, Goran and Kowalewski, Stefan },
    title = { A Benchmark Suite for Hybrid Systems Reachability
Analysis },
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NFM 2015,
    Pasadena, Calif., USA, April 27-29, 2015, Proceedings /
    edited by Klaus Havelund, Gerard Holzmann, Rajeev Joshi },
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Pasadena, Calif.
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    url = { http://publications.rwth-aachen.de/record/541100 },
}

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[DHG+15]

[PDFBIB](#)

Dernehl, C., Hansen, N., Gerlitz, T., and Kowalewski, S., "Static Value Range Analysis for Matlab/Simulink-Models"[Bonn]: Ges. für Informatik, 2015, vol. 246, pp. 1649-1660.

## Static Value Range Analysis for Matlab/Simulink-Models

### Bibtex entry :

```

@inbook { DHG+15,
    author = { Dernehl, Christian and Hansen, Norman and Gerlitz,
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Oktober
    2015 in Cottbus / Douglas W. Cunningham ... (Hrsg.) },
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    year = { 2015 },
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/573834 },
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[Dia15]

[PDFBIB](#)

Diab, H., "Experimental validation and mathematical analysis of cooperative vehicles in a platoon", PhD Thesis, Aachen, 2015.

## Experimental validation and mathematical analysis of cooperative vehicles in a platoon

### Bibtex entry :

```
@phdthesis { Dia15,
  author = { Diab, Hilal },
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http://publications.rwth-aachen.de/record/465272/files/465272.pdf },
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```

[DKF+15]

[PDFBIB](#)

Dzafic, D., Klug, S., Franke, D., and Kowalewski, S., "Routing über Flächen mit SpiderWebGraph", in *Proc. Journal für angewandte Geoinformatik 1-2015*, 2015, pp. 516-252.

## Routing über Flächen mit SpiderWebGraph

### Bibtex entry :

```
@inproceedings { DKF+15,
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}
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[dMK+15]

[PDFBIB](#)

de Brouwer, P., Mager, I., Kopp, R., Walter, M., Stollenwerk, A., Schmitz-Rode, T., Steinseifer, U., and Arens, J., "Dynamische Studie zum Einfluss von negativem Druck auf Hämolyse", *Kardiotechnik*, vol. 24, iss. 1, pp. 3-6, 2015

## Dynamische Studie zum Einfluss von negativem Druck auf Hämolyse

### Bibtex entry :

```
@article { dMK+15,
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  url = { http://ezb.uni-regensburg.de/?2083549 },
}
```

[FKL15]

[PDFBIB](#)

Franke, D., Kowalewski, S., and Lichter, H., "Testing life cycle-related properties of mobile applications", , Aachen, AIB-2015-02, 2015.

## Testing life cycle-related properties of mobile applications

### Bibtex entry :

```
@techreport { FKL15,
  author = { Franke, Dominik and Kowalewski, Stefan and Lichter,
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http://publications.rwth-aachen.de/record/466122/files/466122.pdf },
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[Fra15]

[PDFBIB](#)

Franke, D., "Testing life cycle-related properties of mobile applications = Testen von Lebenszykluseigenschaften mobiler Anwendungen", PhD Thesis, 2015.

## Testing life cycle-related properties of mobile applications = Testen von Lebenszykluseigenschaften mobiler Anwendungen

### Bibtex entry :

```
@phdthesis { Fra15,
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[GSK15]

[PDFBIB](#)

Gerlitz, T., Schake, S., and Kowalewski, S., "Duplikatserkennung und Refactoring in Matlab/Simulink-Modellen", in *Proc. Tagungsband Dagstuhl-Workshop MBEES: Modelbasierte Entwicklung eingebetteter Systeme XI / Matthias Riebisch, Michaela Huhn, Jan Philipps, Bernhard Schätz*, 2015, pp. 17-27.

## Duplikatserkennung und Refactoring in Matlab/Simulink-



## Modellen

### Bibtex entry :

```
@inproceedings { GSK15,
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```

[GTD15]

[PDFBIB](#)

Gerlitz, T., Tran, Q. M., and Dziobek, C., "Detection and Handling of Model Smells for MATLAB/Simulink Models", in *Proc. MASE 2015 : Modelling in Automotive Software Engineering : Proceedings of the International Workshop on Modelling in Automotive Software Engineering co-located with ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems (MODELS 2015) : Ottawa, Canada. September 27, 2015 / Edited by Michal Antkiewicz \* Joanne Atlee \*\* Juergen Dingel \*\*\* Ramesh S \*\*\*\* (\* Electrical and Computer Engineering, University of Waterloo, Waterloo, Ontario, Canada \*\* School of Computer Science, University of Waterloo, Waterloo, Ontario, Canada \*\*\* School of Computing, Queen's University, Kingston, Ontario, Canada \*\*\*\* Global Research and Development, General Motors, Warren, Michigan, USA)*, 2015 in CEUR Workshop Proceedings, CEUR, pp. 13-22.

## Detection and Handling of Model Smells for MATLAB/Simulink Models

### Bibtex entry :

```
@inproceedings { GTD15,
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Engineering :
Proceedings of the International Workshop on Modelling in
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Automotive Software Engineering co-located with ACM/IEEE
18th International Conference on Model Driven Engineering
Languages and Systems (MODELS 2015) : Ottawa, Canada.
September 27, 2015 / Edited by Michal Antkiewicz * Joanne
Atlee ** Juergen Dingel *** Ramesh S **** (* Electrical and
Computer Engineering, University of Waterloo, Waterloo,
Ontario, Canada ** School of Computer Science, University of
Waterloo, Waterloo, Ontario, Canada *** School of Computing,
Queen's University, Kingston, Ontario, Canada **** Global
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[HBS+15]

[PDFBIB](#)

Hauck-Stattelmann, S., Biallas, S., Schlich, B., Kowalewski, S., and Jetley, R., "Analyzing the Restart Behavior of Industrial Control Applications" Springer International Publishing: Cham, 2015, vol. 9109, pp. 585-588.

## Analyzing the Restart Behavior of Industrial Control Applications

### Bibtex entry :

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@inbook { HBS+15,
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  year = { 2015 },
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[JMR+15]

[PDFBIB](#)

Jawawi, D. N. A., Mamat, R., Ridzuan, F., Khatibsyarbini, M., Zulkifli, M., and Zaki, M. J., "Introducing computer programming to secondary school students using mobile robots", in *Proc. 2015 10th Asian Control Conference (ASCC 2015) : Kota Kinabalu, Malaysia, 31 May - 3 June 2015 ; proceedings / ed.: Azura Che Soh ...*, Piscataway, NJ, 2015, IEEE.

## Introducing computer programming to secondary school students using mobile robots

### Bibtex entry :

```

@inproceedings { JMR+15,
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[KGK15]

[PDFBIB](#)

Kalkov, I., Gurchian, A., and Kowalewski, S., "Priority Inheritance during Remote Procedure Calls in Real-Time Android using Extended Binder Framework", in *Proc. Proceedings of the 13th International Workshop on Java Technologies for Real-time and Embedded Systems - JTRES '15 - ACM Press New York, New York, USA, 2015*, 2015, ACM Press New York, New York, USA, p. 5.

# Priority Inheritance during Remote Procedure Calls in Real-Time Android using Extended Binder Framework

## Bibtex entry :

```
@inproceedings { KGK15,
  author = { Kalkov, Igor and Gurchian, Alexandru and Kowalewski,
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Java
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- ACM Press New York, New York, USA, 2015 },
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  pages = { 5, 10 Seiten },
  year = { 2015 },
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Real-time and Embedded Systems, Paris (France), 2015-10-07
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[KKO+15]

[PDFBIB](#)

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@article { KKO+15,
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  journal = { IEE - Elektrische Automatisierung + Antriebstechnik },
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  pages = { 58-61 },
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[KSB+15]

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  author = { K{"u}hn, Jan and Stollenwerk, André and Brendle,
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    R{"u}dger and Kowalewski, Stefan },
  title = { Embedded Safety Measures for Extracorporeal Blood
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[KSK+15]

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### Bibtex entry :

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@article { KSK+15,
  author = { K{"u}hn, Jan and Stollenwerk, André and Kowalewski,
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Steffen and Wardeh, Markus Nabil and Kopp, R{"u}dger and
Rossaint, Rolf },
title = { Pulsatile Ansteuerung einer Diagonalblutpumpe },
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https://www.di-verlag.de/de/Zeitschriften/atp-edition/2015/10/Pulsatile-Ansteuerung-einer-Diagonalblutpumpe },
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    in Computing and Communications ; 14, Helsinki (Finland),
    2015-08-20 - 2015-08-22 },
    doi = { 10.1109/Trustcom.2015.377 },
    typ = { PUB:(DE-HGF)7 },
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[KSS+15]

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    Kowalewski, Stefan and Kopp, R{"u}dger },
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[KWS+15]

[PDFBIB](#)

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```
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Entwicklung  
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Model-based product-line development of embedded systems  
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[Pol15a]

[PDFBIB](#)

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```
@phdthesis { Pol15a,  
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[PDFBIB](#)

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    Makhlof, Ibtissem and Frehse, Goran and Sankaranarayanan,
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  title = { Current Challenges in the Verification of Hybrid Systems
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  url = { http://publications.rwth-aachen.de/record/564375 },
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[PDFBIB](#)

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## Automatic test case generation for PLC programs using coverage metrics

### Bibtex entry :

```
@inproceedings { SFB+15,
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[SKW+15]

[PDFBIB](#)

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**Bibtex entry :**

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[SLR+15]

[PDFBIB](#)

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@inproceedings { SLR+15,
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```

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[PDFBIB](#)

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  author = { Armoush, Ashraf and Franke, Dominik and Kalkov, Igor and
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  title = { An Approach for Using Mobile Devices In Industrial
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  booktitle = { Mobile Computing, Applications, and Services : 5th
    International Conference, MobiCase 2013, Paris, France,
    November 7-8, 2013, Revised Selected Papers },
  publisher = { Springer },
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  url = { http://publications.rwth-aachen.de/record/225590 },
}
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[BK14]

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author = { Ben Makhlof, Ibtissem and Kowalewski, Stefan },
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[BKS+14]

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  author = { Biallas, Sebastian and Kowalewski, Stefan and
Stattelmann,
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of
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  booktitle = { Discrete Event Systems : [Proc. Proceedings of the
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        France, 2014] / Conference Editor: Lesage, Jean-Jacques,
        Faure, Jean-Marc, Cury, Jose E. R., Lennartson, Bengt },
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  pages = { 400-405 },
  year = { 2014 },
  address = { Cachan, France },
  doi = { 10.3182/20140514-3-FR-4046.00065 },
  typ = { PUB:(DE-HGF)8 },
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}

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[DBB+14]

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  Australia ; conference proceedings / organized by UNSW
  Australia, the University of New South Wales, Australia. Ed.
  by Chris Rizos ... },
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[DF14]

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  pages = { 123-126 },
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[DFB+14]

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**Bibtex entry :**

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@inproceedings { DFB+14,
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  title = { Integration von Bodenbelagsinformationen zum
    energieeffizienten Routen von Elektrorollst{\u}hlen },
  booktitle = { Angewandte Geoinformatik 2014 : Beitr{\a}ge zum 26.
    AGIT-Symposium Salzburg / Strobl/ Blaschke/Griesebner/Zagl
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url = { http://publications.embedded.rwth-aachen.de/file/5c },
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[FAK+14]

[PDFBIB](#)

Förster, M., Auerswald, M., Keldenich, P., and Kowalewski, S., "Semantic interfaces for automotive software components: exemplary development & validation of a practical specification language", 2014.

## Semantic interfaces for automotive software components: exemplary development & validation of a practical specification language

**Bibtex entry :**

```
@techreport { FAK+14,
  author = { F{"o}rster, Marc and Auerswald, Marko and Keldenich,
    Phillip and Kowalewski, Stefan },
  title = { Semantic interfaces for automotive software components:
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  pages = { 1-100 },
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  typ = { PUB:(DE-HGF)29 },
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  url = { http://publications.rwth-aachen.de/record/752291 },
}
```

[FK14]

[PDFBIB](#)

Franke, D. and Kowalewski, S., "Concept and Experiences on Using a Wiki-Based System for Software-Related Seminar Papers"Berlin [u.a.]: Springer, 2014, vol. 7991, pp. 140-146.

## Concept and Experiences on Using a Wiki-Based System for Software-Related Seminar Papers

**Bibtex entry :**

```
@inbook { FK14,
  author = { Franke, Dominik and Kowalewski, Stefan },
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  booktitle = { Information technology and open source: applications
for
  education, innovation, and sustainability : SEFM 2012
  Satellite Events, InSuEdu, MoKMaSD, and OpenCert,
  Thessaloniki, Greece, October 1 - 2, 2012 ; revised selected
  papers / Antonio Cerone; Donatella Persico; Sara Fernandes;
```

```

    Alexeis Garcia-Perez; Panagiotis Katsaros; Siraj Ahmed
    Shaikh; Ioannis Stamelos (eds.) },
publisher = { Springer },
pages = { 140-146 },
volume = { 7991 },
series = { Lecture notes in computer science },
year = { 2014 },
address = { Berlin [u.a.] },
doi = { 10.1007/978-3-642-54338-8_11 },
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cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/225247 },
}

```

[For14]

[PDFBIB](#)

Förster, M., "Evaluating Embedded-Software Specifications -- Quantitative and Structured Assessment of Declarative Interface Descriptions", in *Proc. IEEE International Symposium on Software Reliability Engineering workshops (ISSREW), 2014 : 3 - 6 Nov. 2014, Naples, Italy ; proceedings*, Piscataway, NJ, 2014, IEEE, pp. 142-143.

## Evaluating Embedded-Software Specifications -- Quantitative and Structured Assessment of Declarative Interface Descriptions

### Bibtex entry :

```

@inproceedings { For14,
  author = { F{"o"}rster, Marc },
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Quantitative
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[Guc14]

[PDFBIB](#)

Gückel, D., "Synthesis of state space generators for model checking microcontroller code", PhD Thesis, Aachen, 2014.

## Synthesis of state space generators for model checking microcontroller code

### Bibtex entry :

```
@phdthesis { Guc14,
  author = { G{"u}ckel, Dominique },
  othercontributors = { Kowalewski, Stefan and Leupers, Rainer },
  title = { Synthesis of state space generators for model checking
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  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  school = { Aachen, Techn. Hochsch. },
  pages = { XI, 181 S. : Ill., graph. Darst. },
  series = { Aachener Informatik-Berichte Technical report /
  Department
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  http://publications.rwth-aachen.de/record/464374/files/5296.pdf },
}
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[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
},
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  booktitle = { Graph transformation : 7th international conference,
  ICGT
    2014, held as part of STAF 2014, York, UK, July 22 - 24,
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```
    2014 ; proceedings / Holger Giese ... (eds.) },
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}
```

[KGK14]

[PDFBIB](#)

Kalkov, I., Gurghian, A., and Kowalewski, S., "Predictable Broadcasting of Parallel Intents in Real-Time Android" New York, New York: ACM, 2014, pp. 57-66.

## Predictable Broadcasting of Parallel Intents in Real-Time Android

### Bibtex entry :

```
@inbook { KGK14,
    author = { Kalkov, Igor and Gurghian, Alexandru and Kowalewski,
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Java
Technologies for Real-time and Embedded Systems : JTRES 2014
: Niagara Falls, NY, USA, October 13th-14th, 2014 },
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for
Real-time and Embedded Systems, Niagara Falls, NY (USA),
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}
```

[KRR14]

[PDFBIB](#)

Kowalewski, S., Ringert, J. O., and Rumpe, B., "Editorial for the Software Engineering 2013 Conference", *Computer science - research and development*, 2014

## Editorial for the Software Engineering 2013 Conference

### Bibtex entry :

```
@article { KRR14,
  author = { Kowalewski, Stefan and Ringert, Jan Oliver and Rumpe,
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http://www.se-rwth.de/publications/Editorial-for-the-Software-Engineering-2013-Conference.pdf },
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```

[Mer14]

[PDFBIB](#)

Merschen, D., "Integration und Analyse von Artefakten in der modellbasierten Entwicklung eingebetteter Software", PhD Thesis, Aachen, 2014.

## Integration und Analyse von Artefakten in der modellbasierten Entwicklung eingebetteter Software

### Bibtex entry :

```
@phdthesis { Mer14,
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http://publications.rwth-aachen.de/record/229247/files/4967.pdf },
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[OKK14]

[PDFBIB](#)

Obster, M., Kowalewski, S., and Kalkov, I., "Development and Execution of PLC Programs on Real-Time Capable Mobile Devices", in *Proc. 2014 IEEE [International Conference on] Emerging Technologies and Factory Automation (ETFA 2014) : Barcelona, Spain, 16 - 19 September 2014 / [co-sponsored by Universitat Politècnica de Catalunya - Barcelona Tech (UPC); IEEE Industrial Electronics Society]*, Piscataway, NJ, 2014, IEEE, p. 8.

## Development and Execution of PLC Programs on Real-Time Capable Mobile Devices

### Bibtex entry :

```
@inproceedings { OKK14,
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    Industrial Electronics Society] },
  publisher = { IEEE },
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  year = { 2014 },
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}
```

[Pal14]

[PDFBIB](#)

Palczynski, J., "Time continuous behaviour comparison based on abstract models", PhD Thesis, Aachen, 2014.

## Time continuous behaviour comparison based on abstract models

**Bibtex entry :**

```
@phdthesis { Pal14,  
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http://publications.rwth-aachen.de/record/229310/files/4941.pdf },  
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[RBH+14]

[PDFBIB](#)

Reinbacher, T., Brauer, J., Horauer, M., Steininger, A., and Kowalewski, S., "Runtime verification of microcontroller binary code", *Science of computer programming*, vol. 80, pp. 109-129, 2014

**Runtime verification of microcontroller binary code****Bibtex entry :**

```
@article { RBH+14,  
  author = { Reinbacher, Thomas and Brauer, J{"o}rg and Horauer,  
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```

[RFB14]

[PDFBIB](#)

Reinbacher, T., Fuegger, M., and Brauer, J., "Runtime verification of embedded real-time systems", *Formal methods in system design*, vol. 44, iss. 3, pp. 203-239, 2014

# Runtime verification of embedded real-time systems

## Bibtex entry :

```
@article { RFB14,
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[SKB+14]

[PDFBIB](#)

Stattelmann, S., Kowalewski, S., Biallas, S., and Schlich, B., "Applying Static Code Analysis on Industrial Controller Code", in *Proc. 2014 IEEE [International Conference on] Emerging Technologies and Factory Automation (ETFA 2014) : Barcelona, Spain, 16 - 19 September 2014 / [co-sponsored by Universitat Politècnica de Catalunya - Barcelona Tech (UPC); IEEE Industrial Electronics Society]*, Piscataway, NJ, 2014, IEEE, p. 4.

## Applying Static Code Analysis on Industrial Controller Code

### Bibtex entry :

```
@inproceedings { SKB+14,
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    Politècnica de Catalunya - Barcelona Tech (UPC); IEEE
    Industrial Electronics Society] },
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organization = { 2014 IEEE [International Conference on] Emerging
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typ = { PUB:(DE-HGF)7 },
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url = { http://publications.rwth-aachen.de/record/444619 },
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```

[SKB+14a]

[PDFBIB](#)

Stollenwerk, A., Kühn, J., Brendle, C., Walter, M., Arens, J., Wardeh, M. N., Kowalewski, S., and Kopp, R., "Model-based supervision of a blood pump", in *Proc. Proceedings of the 19th World Congress of the International Federation of Automatic Control, Cape Town, South Africa, 2014, 24-29 August 2014 : Promoting automatic control for the benefit of humankind*, Laxenburg, 2014 in IFAC-PapersOnLine, IFAC, pp. 6593-6598.

## Model-based supervision of a blood pump

### Bibtex entry :

```

@inproceedings { SKB+14a,
  author = { Stollenwerk, André and K{"u}hn, Jan and Brendle,
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    and Kowalewski, Stefan and Kopp, R{"u}dger },
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    2014, 24-29 August 2014 : Promoting automatic control for
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  pages = { 6593-6598 },
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[VDF+14]

[PDFBIB](#)

Vogel-Heuser, B., Diedrich, C., Fay, A., Jeschke, S., Kowalewski, S., Wollschlaeger, M., and Göhner, P., "Challenges for Software Engineering in Automation", *Journal of software*

*engineering and applications : JSEA*, vol. 7, iss. 5, pp. 440-451, 2014

## Challenges for Software Engineering in Automation

### Bibtex entry :

```
@article { VDF+14,
  author = { Vogel-Heuser, Birgit and Diedrich, Christian and Fay,
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  title = { Challenges for Software Engineering in Automation },
  journal = { Journal of software engineering and applications : JSEA
},
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  pages = { 440-451 },
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[WSL+14]

[PDFBIB](#)

Weinstock, J. H., Schumacher, C., Leupers, R., and Ascheid, G., "SCandal: SystemC Analysis for Nondeterminism Anomalies"Cham ; s.l.: Springer International Publishing [u.a.], 2014, vol. 265, pp. 69-88.

## SCandal: SystemC Analysis for Nondeterminism Anomalies

### Bibtex entry :

```
@inbook { WSL+14,
  author = { Weinstock, Jan Henrik and Schumacher, Christoph and
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  title = { SCandal: SystemC Analysis for Nondeterminism Anomalies },
  booktitle = { Models, Methods, and Tools for Complex Chip Design :
    Selected Contributions from FDL 2012 / edited by Jan Haase },
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url = { http://publications.rwth-aachen.de/record/229017 },
}
```

[BBK13]

[PDFBIB](#)

Biallas, S., Bohlender, D., and Kowalewski, S., "Boolean and Modular Abstractions for Programmable Logic Controllers", in *Proc. Dependable Control of Discrete Systems : DCDS13. - Vol. 4, P. 1*, Laxenburg, 2013, IFAC, pp. 97-102.

## Boolean and Modular Abstractions for Programmable Logic Controllers

### Bibtex entry :

```
@inproceedings { BBK13,
  author = { Biallas, Sebastian and Bohlender, Dimitri and
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  url = { http://publications.rwth-aachen.de/record/225788 },
}
```

[BDK13]

[PDFBIB](#)

Ben Makhoulf, I., Diab, H., and Kowalewski, S., "Reachability Analysis for Managing Platoons at Intersections", in *Proc. 2013 21st Mediterranean Conference on Control & Automation (MED 2013) : [Platanias], Chania, Crete, Greece, 25 - 28 June 2013 ; [conference proceedings] / [sponsor: Mediterranean Control Association. Technical co-sponsors: IEEE Control Systems Society; IEEE Robotics & Automation Society ... Ed. by Panos Antsaklis ...]. - 1-2*, Piscataway, NJ, 2013, IEEE, pp. 1141-1147.

# Reachability Analysis for Managing Platoons at Intersections

## Bibtex entry :

```
@inproceedings { BDK13,
  author = { Ben Makhoulouf, Ibtissem and Diab, Hilal and Kowalewski,
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  booktitle = { 2013 21st Mediterranean Conference on Control &
    Automation
    (MED 2013) : [Platanias], Chania, Crete, Greece, 25 - 28
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    Mediterranean Control Association. Technical co-sponsors:
    IEEE Control Systems Society; IEEE Robotics & Automation
    Society ... Ed. by Panos Antsaklis ...]. - 1-2 },
  publisher = { IEEE },
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}
```

[BGK13]

[PDFBIB](#)

Biallas, S., Giacobbe, M., and Kowalewski, S., "Predicate Abstraction for Programmable Logic Controllers" Berlin, Heidelberg ; s.l.: Springer Berlin Heidelberg ; Imprint: Springer, 2013, vol. 8187, pp. 123-138.

# Predicate Abstraction for Programmable Logic Controllers

## Bibtex entry :

```
@inbook { BGK13,
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    International Workshop, FMICS 2013, Madrid, Spain, September
    23-24, 2013. Proceedings / edited by Charles Pecheur,
    Michael Dierkes },
  publisher = { Springer Berlin Heidelberg ; Imprint: Springer },
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pages = { 123-138 },
volume = { 8187 },
series = { Lecture notes in computer science },
year = { 2013 },
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doi = { 10.1007/978-3-642-41010-9_9 },
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cin = { 120000 / 122810 },
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}
```

[BHK13]

[PDFBIB](#)

Ben Makhlof, I., Hänsch, P., and Kowalewski, S., "Comparison of Reachability Methods for Uncertain Linear Time-Invariant Systems", in *Proc. Proceedings of the 12th European Control Conference (ECC) : July 17 -19, 2013, Zuerich, Switzerland*, Zürich, 2013, Omnipress, pp. 1101-1106.

## Comparison of Reachability Methods for Uncertain Linear Time-Invariant Systems

### Bibtex entry :

```
@inproceedings { BHK13,
  author = { Ben Makhlof, Ibtissem and H{"a}nsch, Paul and
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}
```

[BK13]

[PDFBIB](#)

Brauer, J. and Kowalewski, S., "Automatic abstraction for bit vectors using decision procedures", Aachen, AIB 2013 14, 2013.

## Automatic abstraction for bit vectors using decision procedures

### Bibtex entry :

```
@techreport { BK13,  
  author = { Brauer, Jörg and Kowalewski, Stefan },  
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  publisher = { Fachgruppe Informatik, RWTH Aachen University },  
  pages = { IV, 207 S. : graph. Darst. },  
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http://publications.rwth-aachen.de/record/229199/files/4836.pdf },  
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[BKK+13]

[PDFBIB](#)

Biallas, S., Kamin, V., Kowalewski, S., Schlich, B., Sehestedt, S., and Stattelmann, S., "Verifikation von sicherheitsgerichteten SPS-Programmen mit Hilfe von Safety-Automaten" Düsseldorf: VDI-Verl., 2013, vol. 2209, pp. 75-79.

## Verifikation von sicherheitsgerichteten SPS-Programmen mit Hilfe von Safety-Automaten

### Bibtex entry :

```
@inbook { BKK+13,  
  author = { Biallas, Sebastian and Kamin, Volker and Kowalewski,  
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Automatisierungstechnik ; Kongresshaus Baden-Baden, 25. und  
26. Juni 2013 / VDI/VDE-Gesellschaft Mess- und  
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url = { http://publications.rwth-aachen.de/record/226206 },
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[BKK13]

[PDFBIB](#)

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## Abstract interpretation of microcontroller code: Intervals meet congruences

### Bibtex entry :

```
@article { BKK13,
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```

[BMC+13]

[PDFBIB](#)

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## PtrTracker: Pragmatic pointer analysis

### Bibtex entry :

```
@inproceedings { BMC+13,
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}
```

[DF13]

[PDFBIB](#)

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## Entwicklung und Evaluation eines Navigationssystems für Elektrorollstühle

### Bibtex entry :

```
@inbook { DF13,
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    fachwissenschaftlicher Informatik-Kongress 22. und 23.
    M{"a}rz 2013 B-IT Bonn-Aachen International Center for
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publisher = { Gesellschaft f{"u}r Informatik e.V. },
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}

```

[DFB+13]

[PDFBIB](#)

Dzafic, D., Franke, D., Baumeister, D., and Kowalewski, S., "Modifikation des A\*-Algorithmus für energieeffizientes 3D-Routing", in *Proc. Angewandte Geoinformatik 2013 : Beiträge zum 25. AGIT-Symposium Salzburg / Strobl ; Blaschke ; Griesebner ; Zagel (Hrsg.)*, Berlin ; Offenbach, 2013, Wichmann, pp. 414-423.

## Modifikation des A\*-Algorithmus für energieeffizientes 3D-Routing

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```

@inproceedings { DFB+13,
  author = { Dzafic, Dzenan and Franke, Dominik and Baumeister, Danni
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}

```

[FHK13]

[PDFBIB](#)

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## Specifying Life Cycle Requirements in a Natural-like Language and ptLTL

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```
@inproceedings { FHK13,  
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  url = { http://publications.rwth-aachen.de/record/226262 },  
}
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[For13]

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## Conditional software specification & assurance : A practical assessment of contract-based approaches

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```
@inproceedings { For13,  
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[GKS+13]

[PDFBIB](#)

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  author = { Gerlitz, Thomas and Kalkov, Igor and Schommer, John F.
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2013, Karlsruhe, Germany },
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```

[HDB+13]

[PDFBIB](#)

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@article { HDB+13,
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volume = { 297 },
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[HF13]

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Hansen, N. and Franke, D., "Reverse Engineering des Windows Phone Process Execution Models" Bonn: Gesellschaft für Informatik e.V., 2013, vol. 12, pp. 83-86.

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### Bibtex entry :

```
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  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
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    M{"a"}rz 2013 B-IT Bonn-Aachen International Center for
    Information Technology, Bonn / Gesellschaft f{"u"}r
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}
```

[KPB13]

[PDFBIB](#)

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# Model checking and abstract interpretation as building blocks of advanced program analysis techniques

## Bibtex entry :

```
@article { KPB13,
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  url = { http://publications.rwth-aachen.de/record/752289 },
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```

[KR13]

[PDFBIB](#)

Kowalewski, S. and Rumpe, B., Eds., *Software Engineering 2013 : Fachtagung des GI-Fachbereichs Softwaretechnik 26. Februar - 1. März 2013 in Aachen*, Bonn: Ges. für Informatik, 2013.

## Software Engineering 2013 : Fachtagung des GI-Fachbereichs Softwaretechnik 26. Februar - 1. März 2013 in Aachen

## Bibtex entry :

```
@proceedings { KR13,
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```

[MGP+13]

[PDFBIB](#)

Merschen, D., Gleis, R., Pott, J., and Kowalewski, S., "Analysis of Simulink Models Using Databases and Model Transformations", in *Proc. Model-Based Methodologies for Pervasive and Embedded Software : 8th International Workshop, MOMPES 2012, Essen, Germany, September 4, 2012. Revised Papers / edited by Ricardo J. Machado, Rita Suzana P. Maciel, Julia Rubin, Goetz Botterweck*, Berlin, Heidelberg, 2013 in *Lecture Notes in Computer Science*, Springer, pp. 69-84.

## Analysis of Simulink Models Using Databases and Model Transformations

### Bibtex entry :

```
@inproceedings { MGP+13,
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```

[NHM13]

[PDFBIB](#)

Neugebauer, J., Hanrath, M., and Mitric, R., "Theoretische Chemie 2012", *Nachrichten aus der*

*Chemie*, vol. 61, iss. 3, pp. 320-329, 2013

## Theoretische Chemie 2012

### Bibtex entry :

```
@article { NHM13,
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Roland },
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  pages = { 320-329 },
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}
```

[PMS+13]

[PDFBIB](#)

Pomprapa, A., Misgeld, B., Sorgato, V., Stollenwerk, A., Walter, M., and Leonhardt, S., "Robust Control of End-Tidal CO<sub>2</sub> using the H<sub>∞</sub> Loop-Shaping Approach", *Acta polytechnica = Journal of advanced engineering*, vol. 53, pp. 895-900, 2013

## Robust Control of End-Tidal CO<sub>2</sub> using the H<sub>∞</sub> Loop-Shaping Approach

### Bibtex entry :

```
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```

[Rek13]

[PDFBIB](#)

Reke, M., "Modellbasierte Entwicklung automobiler Steuerungssysteme in kleinen und mittelständischen Unternehmen", PhD Thesis, Aachen, 2013.

## **Modellbasierte Entwicklung automobiler Steuerungssysteme in kleinen und mittelständischen Unternehmen**

### **Bibtex entry :**

```
@phdthesis { Rek13,
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http://publications.rwth-aachen.de/record/211920/files/4545.pdf },
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[Rek13a]

[PDFBIB](#)

Reke, M., "Modellbasierte Entwicklung automobiler Steuerungssysteme in kleinen und mittelständischen Unternehmen = Model-based development of automotive control systems in small and medium enterprises", PhD Thesis, 2013.

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### Bibtex entry :

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[SDK13]

[PDFBIB](#)

Schellen, J., Dernehl, C., and Kowalewski, S., "Optimizing Image Processing on OMAP3 with driver-level frame buering and color space conversion", in *Proc. International Micro Air Vehicle Conference and Flight Competition (IMAV)*, 2013, IMAV, pp. 1-8.

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### Bibtex entry :

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@inproceedings { SDK13,  
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[SGK13]

[PDFBIB](#)

Schommer, J. F., Gerlitz, T., and Kowalewski, S., "Load and Quality Cooperation for Distributed

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### Bibtex entry :

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@inproceedings { SGK13,
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[Sto13]

[PDFBIB](#)

Stollenwerk, A., "Ein modellbasiertes Sicherheitskonzept für die extrakorporale Lungenunterstützung", PhD Thesis, Aachen, 2013.

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[VK13]

[PDFBIB](#)

Vogel-Heuser, B. and Kowalewski, S., "Cyber-physical Systems", *Automatisierungstechnik : at*, vol. 61, iss. 10, pp. 667-668, 2013

## Cyber-physical Systems

### Bibtex entry :

```
@article { VK13,
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[WBS+13]

[PDFBIB](#)

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## Patient oriented closed loop control of extracorporeal lung assist

### Bibtex entry :

```
@inproceedings { WBS+13,
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}
```

[WGM+13]

[PDFBIB](#)

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## Ein Ansatz zum merkmalsbasierten Konsistenzmanagement in der Produktlinienentwicklung

### Bibtex entry :

```
@inbook { WGM+13,
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    M{"a"}rz 2013 B-IT Bonn-Aachen International Center for
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```

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### Bibtex entry :

```
@article { WSB+13,
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```

[BBK+12]

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### Bibtex entry :

```
@inproceedings { BBK+12,
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```

[BBK12]

[PDFBIB](#)

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## Static Analysis of Lockless Microcontroller C Programs

### Bibtex entry :

```
@inproceedings { BBK12,
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```

[BBK12a]

[PDFBIB](#)

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## Access-Based Localization for Octagons

### Bibtex entry :

```
@article { BBK12a,  
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```

[BBK12b]

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@inproceedings { BBK12b,  
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[BDK12]

[PDFBIB](#)

Ben Makhlof, I., Diab, H., and Kowalewski, S., "Safety Verification of a Controlled Cooperative Platoon Under Loss of Communication Using Zonotopes", in *Proc. Inproceeding of the 4th IFAC Conference on Analysis and Design of Hybrid Systems (ADHS 12)*, Eindhoven, NL, 2012, pp. 333-338.

## Safety Verification of a Controlled Cooperative Platoon Under Loss of Communication Using Zonotopes

### Bibtex entry :

```
@inproceedings { BDK12,
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[BHK+12]

[PDFBIB](#)

Brauer, J., Hansen, R. R., Kowalewski, S., Larsen, K. G., and Olesen, M. C., "Adaptable Value-Set Analysis for Low-Level Code", in *Proc. 6th International Workshop on Systems Software Verification (SSV 2011) [Elektronische Ressource] / Hrsg.: Jörg Brauer ; Marco Roveri ; Hendrik Tews, Wadern, 2012 in OASlcs - OpenAccess Series in Informatics, Schloss Dagstuhl - Leibniz-Zentrum für Informatik*, pp. 32-43.

## Adaptable Value-Set Analysis for Low-Level Code

### Bibtex entry :

```
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Verification
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url = { http://publications.rwth-aachen.de/record/128784 },
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[BK12]

[PDFBIB](#)

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```

@inproceedings { BK12,
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[BK12a]

[PDFBIB](#)

Brauer, J. and King, A., "Transfer function synthesis without quantifier elimination", *Logical*

*methods in computer science : LMCS*, vol. 8, iss. 3, 2012

## Transfer function synthesis without quantifier elimination

### Bibtex entry :

```
@article { BK12a,  
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[BKN12]

[PDFBIB](#)

Barakat, K., Kowalewski, S., and Noll, T., "A Native Approach to Modeling Timed Behavior in the Pi-Calculus", in *Proc. IEEE Sixth International Symposium on Theoretical Aspects of Software Engineering : Beijing, China, 4 - 6 July 2012 ; proceedings / Edited by Tiziana Margaria, Zongyan Qiu, and Hongli Yang*, Piscataway, NJ, 2012, IEEE, pp. 253-256.

## A Native Approach to Modeling Timed Behavior in the Pi-Calculus

### Bibtex entry :

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@inproceedings { BKN12,  
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```

[BKS12]

[PDFBIB](#)

Biallas, S., Kowalewski, S., and Schlich, B., "Automatische Wertebereichsanalyse von SPS-Programmen", in *Proc. Automation 2012 : der 13. Branchentreff der Mess- und Automatisierungstechnik / VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik ; Kongress 'Automation 2012' ; 13 (Baden-Baden) ; 2011.06.13-14 Branchentreff der Mess- und Automatisierungstechnik*, Düsseldorf, 2012 in VDI-Berichte, VDI-Verl., pp. 79-83.

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### Bibtex entry :

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@inproceedings { BKS12,
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[BKS12a]

[PDFBIB](#)

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## Bibtex entry :

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```

[BKS12b]

[PDFBIB](#)

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## Range and Value-Set Analysis for Programmable Logic Controllers

## Bibtex entry :

```
@inproceedings { BKS12b,
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## Inferring Definite Counterexamples Through Under-Approximation

### Bibtex entry :

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@inproceedings { BS12,
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NFM 2012,
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}
```

[BSK12]

[PDFBIB](#)

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### Bibtex entry :

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@article { BSK12,
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[DBK12]

[PDFBIB](#)

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## A Platoon of Vehicles Approaching an Intersection: A Testing Platform for Safe Intersections

### Bibtex entry :

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@inproceedings { DBK12,
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### Bibtex entry :

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@inproceedings { FDB+12,
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[FEK12]

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### Bibtex entry :

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@inproceedings { FEK12,
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[FKW+12]

[PDFBIB](#)

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@inproceedings { FKW+12,
  author = { Franke, Dominik and Kowalewski, Stefan and Weise, C. and
    Prakobkosol, N. },
  title = { Testing Conformance of Life Cycle Dependent Properties of
    Mobile Applications },
  booktitle = { 2012 IEEE Fifth International Conference on Software
    Testing, Verification and Validation (ICST 2012) :
    Montréal, Québec, Canada, 17 - 21 April 2012 ;
    [proceedings ; including workshop papers] / [IEEE Computer
    Society] },
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  url = { http://publications.rwth-aachen.de/record/128852 },
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  author = { Franke, Dominik and Kowalewski, Stefan and Weise,
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proceedings; [including workshop papers] / technical
sponsor: IEEE Reliability Society. Ed. by Antony Tang ... },
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Xi'an,
  Shaanxi (Peoples R China), 2012-08-27 - 2012-08-29 },
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  author = { F{"o"}rster, Marc },
  title = { Dependable reuse & guarded integration of automotive
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specification & assurance },
  pages = { 1-78 },
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  url = { http://publications.rwth-aachen.de/record/752295 },
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[PDFBIB](#)

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Stefan },
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  booktitle = { Embedded Software Engineering Kongress (ESE) },
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  cin = { 122810 / 120000 },
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cin = { 122810 / 120000 },
url = {
http://www.thinkmind.org/index.php?view=article&articleid=valid_2012_1_
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}
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[GDF+12]

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  author = { Gathmann, Felix and Dernehl, Christian and Franke,
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  url = { http://publications.rwth-aachen.de/record/752304 },
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[HK12]

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  author = { H{"a"}nsch, Paul and Kowalewski, Stefan },
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  booktitle = { Reachability Problems : 6th International Workshop,
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    Bordeaux, France, September 17-19, 2012. Proceedings / ed.
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    typ = { PUB:(DE-HGF)8 },
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[KFS+12]

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  author = { Kalkov, Igor and Franke, Dominik and Schommer, John F.
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  on Java Technologies for Real-time and Embedded Systems,
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  url = { http://publications.rwth-aachen.de/record/129215 },
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  author = { Kowalewski, Stefan and Rump, Bernhard and Stollenwerk,
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    Automatisierungstechnik / VDI/VDE-Gesellschaft Mess- und
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  title = { Model-Based Analysis of Design Artefacts Applying an
    Annotation Concept },
  booktitle = { Proceedings 198 Software Engineering 2012 -
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      2012 in Berlin / J{"a}hnichen, Stefan [Hrsg.] ; K{"u}pper,
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  pages = { 169-180 },
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    http://subs.emis.de/LNI/Proceedings/Proceedings198/article6657.html },
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[MEJ+12]

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  author = { Murillo, Luis Gabriel and Eusse, Juan Fernando and  
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    Vol. 1 },  
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[MHL+12]

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  author = { Murillo, Luis Gabriel and Harnath, Julian and Leupers,  
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url = {
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author = { Michailidis, Alexander A. },
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title = { Konzepte für eine virtuelle Integration von
AUTOSAR-konformer Fahrzeug-Software in frühen
Entwicklungsphasen },
publisher = { Shaker },
pages = { IX, 178 S. : Ill., graph. Darst. },
series = { Berichte aus der Informatik },
year = { 2012 },
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cin = { 100000 / 122810 },
url = { http://publications.rwth-aachen.de/record/64327 },
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url = { http://publications.rwth-aachen.de/record/210819 },
}

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  author = { Merschen, Daniel and Pott, Julian and Kowalewski, Stefan
},
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    Conference workshops (COMPSACW), 2012 : 16 - 20 July 2012,
    Izmir, Turkey / sponsored by IEEE; IEEE Computer Society.
    Ed.: Xiaoying Bai ... },
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Applications
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  url = { http://publications.rwth-aachen.de/record/752306 },
}

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  author = { Pleuss, Andreas and Botterweck, G{"o}tz and Dhungana,
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  url = { http://publications.rwth-aachen.de/record/211937 },
}
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[RKH+12]

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    and Diab, Hilal and Jeschke, Sabina },
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                  December 2012 / [sponsored by IEEE Robotics and Automation
                  Society (RAS) ...] },
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    year = { 2012 },
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[SFL+12]

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    author = { Schommer, John F. and Franke, Dominik and Lange, Tim and
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                  Ed.: Xiaoying Bai ...] },
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    year = { 2012 },
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[SWL+12]

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    Leupers, Rainer and Kienhuis, Bart and Walters, Johan and
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  title = { FIFO Exploration in Mapping Streaming Applications onto
  the
    TI OMAP3530 Platform: Case Study and Optimizations },
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booktitle = { IEEE 6th International Symposium on Embedded
Multicore SoCs
(MCSoc-12), 20-22 Sept. 2012 in Aizu-Wakamatsu },
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```

[WBB+12]

[PDFBIB](#)

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### Bibtex entry :

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author = { Walter, Marian and Brendle, Christian and Bensberg, Ralf
and
Kopp, R{"u}dger and Arens, Jutta and Stollenwerk, André
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booktitle = { 5th European Conference of the International
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[WBS+12]

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  author = { Walter, Marian and Brendle, Christian and Stollenwerk,  
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http://www.scai-med.org/meetings/2012Iccai/2012iccaiprogram.pdf },  
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[Bar11]

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  author = { Barakat, Kamal },  
  title = { Introducing Timers to Pi-Calculus },  
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[PDFBIB](#)

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  editor = { Beckschulze, E. and Boymanns, D. and Duelks, R. and  
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    F. and Siegbert, T. },  
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[BBK+11]

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doi = { 10.1109/ISORCW.2011.40 },
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[BBS+11a]

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  publisher = { DGBMT },
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  url = { http://publications.rwth-aachen.de/record/752308 },
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[BK11]

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  series = { Lecture Notes in Computer Science },
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    ; proceedings / Gilles Barthe (ed.) },
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url = { http://publications.rwth-aachen.de/record/126458 },
}

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[BKK11]

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  / Ganesh Gopalakrishnan; Shaz Qadeer (eds.) },
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  author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich, Bastian },
  title = { Leistungsfähige Verifikation von industriellen SPS-Programmen mittels Model-Checking und statischer Analyse },
  booktitle = { 'Zukunft verantwortungsvoll gestalten' : Automation 2011 ;
  der 12. Branchentreff der Mess- und Automatisierungstechnik ; Kongress Baden-Baden, 28. und 29. Juni 2011 / VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik. [Kongressleiter: Peter Adolphs ...] },
  publisher = { VDI-Verl. },
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[BMH+11]

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  author = { Ben Makhlouf, Ibtissem and Maschuw, Jan P. and H{"a"}nsch, Paul and Diab, Hilal and Kowalewski, Stefan and Abel, Dirk },
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title = { Safety Verification of a Cooperative Vehicle Platoon
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August
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Cuore, Milano Italy / Ed.: Sergio Bittanti ... },
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[BRT11]

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author = { Brauer, J{\o}rg and Roveri, Marco and Tews, Hendrik },
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Software Verification (SSV 2011) },
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pages = { 101 S. },
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[DFD+11]

[PDFBIB](#)

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2011 (IMAV 2011), 't Harde, The Netherlands, September
12-15, 2011 },
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}
```

[FDW+11]

[PDFBIB](#)

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## Bibtex entry :

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@inproceedings { FDW+11,
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5. - 7. April, 2011 },
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  year = { 2011 },
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http://www.mapmedia.de/jthomsen/FOSSGIS_Tagungsband/2011_FOSSGIS_Tagung
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[FDW+11a]

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### Bibtex entry :

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[FEW+11]

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```
author = { Franke, Dominik and Elsemann, Corinna and Weise, Carsten
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    [proceedings] / [Technically co-sponsored by IEEE Computer
    Society. Sponsored by Reengineering Forum; IEEE-CS Technical
    Council on Software Engineering]. Ed.: Martin Pinzger },
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year = { 2011 },
address = { Piscataway, NJ },
doi = { 10.1109/WCRE.2011.42 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-205156 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/227967 },
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    Software Testing, Verification, and Validation ; Berlin,
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[GK11]

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  Fakult{"a}t Informatik. J{"o}rg Brauer ... (ed.) },
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  pages = { 18-32 },
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[GKK+11]

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  author = { Grobosch, Sebastian and Kamin, Volker and Krirkkawin,
  Kriengkrai and Kowalewski, Stefan },
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title = { Using Timed Automata in Requirements Analysis for Engine
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}

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[HSK11]

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            2011 ; proceedings / Sabina Jeschke; Honghai Liu; Daniel
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[KBW+11]

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[KRS+11]

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  author = { Maschuw, Jan P. and Diab, Hilal and Abel, Dirk and  
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  author = { Merschen, Daniel and Polzer, Andreas and Botterweck,  
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  author = { Mitsching, Ralf and Weise, Carsten and Bohnenkamp,
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[MWF+11]

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[PWK+11]

[PDFBIB](#)

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[PWM+11]

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http://www.in.tu-clausthal.de/fileadmin/homes/GI/Documents/MBEES2011_Ge
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### Bibtex entry :

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[RBH+11]

[PDFBIB](#)

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[RBS+11]

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  author = { Reinbacher, Thomas and G{"u}ckel, Dominique and
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  pages = { 15 S. },
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  author = { Reinbacher, Thomas and Horauer, Martin and Schlich,
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  author = { Reinbacher, Thomas and Steininger, Andreas and
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and Applications, Pt. A },
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[SA11]

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[SBK11]

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    author = { Schlich, Bastian and Brauer, J{"o}rg and Kowalewski,
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[SGA+11]

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  title = { Safety Aware Pump-Control for a Rotary ECMO Blood Pump },
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  pages = { 617-617 },
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[SGB+11]

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[SGW+11]

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}

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[SNB+11]

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Haifa, Israel, October 19-22, 2009 : revised selected papers
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[SSK+11]

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  author = { Sasnauskas, Raimondas and Soria Dustmann, Oscar and
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    Carsten and Kowalewski, Stefan },
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    June 2011 / IEEE. [Sponsored by IEEE Computer Society
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    Hung-Chang Du, general chair] },
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[WBA+11]

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[AdM+10]

[PDFBIB](#)

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[Arm10]

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  author = { Armoush, Ashraf },
  othercontributors = { Kowalewski, Stefan },
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  pages = { XIV, 181 S. : graph. Darst. },
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[BBG+10]

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  author = { Biallas, Sebastian and Brauer, J{"o}rg and G{"u}ckel,
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[BBK10]

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## PLCs

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[BFK+10]

[PDFBIB](#)

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  11. Fachtagung mit Tutorium, 25. bis 27. Mai 2010 in
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  f{"u}r Automation und Kommunikation e.V., Magdeburg;
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    Otto-von-Guericke-Universit{"a"}t Magdeburg, Institut
    f{"u"}r Automatisierungstechnik. [Hrsg.: Ulrich Jumar,
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[BGL+10]

[PDFBIB](#)

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[BK10]

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[BKK+10]

[PDFBIB](#)

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[BKK10]

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@inproceedings { BKK10,
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@inproceedings { BNS10,
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author = { Brauer, J{"o}rg and Noll, Thomas and Schlich, Bastian
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}

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[BPD+10]

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author = { Botterweck, G{"o}tz and Pleuss, Andreas and Dhungana,
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[BPK10]

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  author = { Botterweck, G{\"}tz and Polzer, Andreas and Kowalewski,
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https://www.tu-braunschweig.de/Medien-DB/isf/mbees2010\_tagungsband.pdf
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[CBD+10]

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  author = { Chávez Grunewald, Martin Guillermo and Ben Makhlof,
    Ibtissem and Diab, Hilal and Abel, Dirk and Kowalewski,
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    Controller },
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[CBD+10a]

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Massenpunktfahrzeuge mit Hilfe energiebasierter Methoden },
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[DCB+10]

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  author = { Gückel, Dominique and Brauer, Jörg and
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[GSB+10]

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publisher = { Springer Berlin Heidelberg },
volume = { 6371 },
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15th
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url = { http://publications.rwth-aachen.de/record/752312 },
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[MRH+10]

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        author = { Michailidis, Alexander A. and Ringler, Thomas and
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    7th IEEE International Conference on Embedded Software and
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    Conference on Scalable Computing and Communications (ScalCom
    2010) ; proceedings ; including their workshops/symposia] /
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[MWK10]

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    author = { Mitsching, Ralf and Weise, Carsten and Kowalewski,
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[PMT+10]

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  author = { Reinbacher, Thomas and Horauer, Martin and Schlich,
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[SDK10]

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[SJA+10]

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[SJW+10]

[PDFBIB](#)

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### Bibtex entry :

```
@article { SJW+10,
  author = { Stollenwerk, André and J{"o}rgens, J{"o}rg and Walter,
    Marian and Arens, Jutta and Kopp, R{"u}dger and Kowalewski,
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  title = { Modellbasierte Fehlerdiagnose eines Membranoxygenators },
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  pages = { 174-177 },
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}
```

[SLA+10]

[PDFBIB](#)

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## KleeNet: discovering insidious interaction bugs in wireless sensor networks before deployment

### Bibtex entry :

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@inproceedings { SLA+10,
  author = { Sasnauskas, R. and Landsiedel, O. and Alizai, M. and
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}
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[SLW+10]

[PDFBIB](#)

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## Sicherheitskonzept für eine intensivmedizinische Anwendung am Beispiel der EMCO

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@inproceedings { SLW+10,
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  booktitle = { Entwurf komplexer Automatisierungssysteme : EKA 2010
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    Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ;
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11. Fachtagung mit Tutorium, 25. bis 27. Mai 2010 in
Magdeburg, Denkfabrik im Wissenschaftshafen / ifak, Institut
f{"u}r Automation und Kommunikation e.V., Magdeburg;
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f{"u}r Automatisierungstechnik. [Hrsg.: Ulrich Jumar,
Eckehard Schnieder, Christian Diedrich] },
publisher = { ifak },
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year = { 2010 },
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[WLK+10]

[PDFBIB](#)

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## A physiological model for extracorporeal oxygenation controller design

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@inproceedings { WLK+10a,
  author = { Walter, Marian and Leonhardt, Steffen and Kopp,
R{"u}dger
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  booktitle = { 32nd Annual International Conference of the IEEE
Engineering
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    Medical Humanism and Technology" ; August 31 - September
    4, 2010. Sheraton Hotel, Buenos Aires, Argentina /
    Engineering in Medicine and Biology Soc. },
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[ABK09]

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## Bibtex entry :

```
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  author = { Armoush, Ashraf and Beckschulze, Eva and Kowalewski,
Stefan },
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[AK09]

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  author = { Armoush, Ashraf and Kowalewski, Stefan },
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International Conference on Computer Safety, Reliability and
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Heidelberg ... },
publisher = { Universit{"a}t },
pages = { 9-16 },
year = { 2009 },
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/99563 },
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[ASK09]

[PDFBIB](#)

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  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski,
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  journal = { Journal of software engineering and applications : JSEA
},
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  url = { http://www.scirp.org/journal/jsea },
}

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[BHS09]

[PDFBIB](#)

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@article { BHS09,
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  journal = { Electronic notes in theoretical computer science :
ENTCS },
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[BKC+09]

[PDFBIB](#)

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  author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan and Chávez
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  title = { Safety assessment of networked vehicle platoon
controllers :
practical experiences with available tools },
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[BPK09]

[PDFBIB](#)

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## Using higher-order transformations to derive variability mechanism

### Bibtex entry :

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@inproceedings { BPK09,
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    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 ... },
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}

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[BPK09a]

[PDFBIB](#)

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# Interactive configuration of embedded systems product lines

## Bibtex entry :

```
@inproceedings { BPK09a,
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[BPK09b]

[PDFBIB](#)

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## Bibtex entry :

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@inproceedings { BPK09b,
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  booktitle = { Models in software engineering : workshops and
                symposia at
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  publisher = { Springer },
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series = { Lecture notes in computer science },
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url = { http://publications.rwth-aachen.de/record/129006 },
}

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[BPP+09]

[PDFBIB](#)

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

### Bibtex entry :

```

@inproceedings { BPP+09,
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}

```

[BSK09]

[PDFBIB](#)

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## Bibtex entry :

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@inproceedings { BSK09,
  author = { Beckschulze, Eva and Salewski, Falk and Kowalewski,
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world congress, held April 20 - 23, 2009 in Detroit,
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  publisher = { SAE Intern. },
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}
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[BSR+09]

[PDFBIB](#)

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## Bibtex entry :

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@inproceedings { BSR+09,
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Thomas
and Kowalewski, Stefan },
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embedded systems ; 2009, Grenoble, France, October 11 - 16,
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url = { http://publications.rwth-aachen.de/record/100433 },
}
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[DBK+09]

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### Bibtex entry :

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[DSK09]

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},
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                Conference Practice and Research Techniques : TAIC PART 2009
                ; 4-6 September 2009 Cumberland Lodge, Windsor, United
                Kingdom },
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  url = { http://publications.rwth-aachen.de/record/126992 },
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[FHS+09]

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  author = { Fehnker, Ansgar and Huuck, Ralf and Schlich, Bastian and
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                (eds.) },
  publisher = { Springer },
  pages = { 267-278 },
  volume = { 5404 },
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  year = { 2009 },
  address = { Berlin [u.a.] },
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}

[Guc09]

[PDFBIB](#)

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### Bibtex entry :

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@inproceedings { Guc09,
  author = { G{"u}ckel, Dominique },
  title = { Retargeting a hardware-dependent model checker by using
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  booktitle = { Doctoral Symposium on Systems Software Verification
(DS
  SSV'09) : Real Software, Real Problems, Real Solutions ;
  proceedings ; held during the 4th International Workshop on
  Systems Software Verication (SSV'09) in Aachen, Germany,
  June 22\24, 2009 / Ralf Huuck, Gerwin Klein, and Bastian
  Schlich (eds.) },
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  pages = { 7-9 },
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  year = { 2009 },
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  url = {
http://sunsite.informatik.rwth-aachen.de/Publications/AIB/2009/2009-14.
pdf },
}
```

[HKK+09]

[PDFBIB](#)

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@proceedings { HKK+09,  
  editor = { Hutchison, David and Kanade, Takeo and Kittler, Josef  
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  Kleinberg, Jon M. and Mattern, Friedemann and Mitchell, John  
C. and Naor, Moni and Nierstrasz, Oscar and Rangan, C. Pandu  
and Steffen, Bernhard and Sudan, Madhu and Terzopoulos,  
Demetri and Tygar, Doug and Vardi, Moshe Y. and Weikum,  
Gerhard and Kowalewski, Stefan and Philippou, Anna },  
  title = { Tools and Algorithms for the Construction and Analysis of  
Systems : 15th International Conference, TACAS 2009, Held as  
Part of the Joint European Conferences on Theory and  
Practice of Software, ETAPS 2009, York, UK, March 22-29,  
2009. Proceedings },  
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}
```

[KGG+09]

[PDFBIB](#)

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  author = { Kowalewski, Stefan and Garavello, Mauro and Guéguen,  
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    and Herberich, Gerlind and Langerak, Rom and Piccoli,
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    title = { Hybrid automata },
    booktitle = { Handbook of hybrid systems control : theory, tools,
    applications / edited by Jan Lunze, Franoise
    Lamnabhi-Lagarrigue },
    publisher = { Cambridge University Press [2009] },
    pages = { 57-86 },
    year = { 2009 },
    address = { Cambridge },
    doi = { 10.1017/CB09780511807930.004 },
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    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752315 },
}

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[KHS09]

[PDFBIB](#)

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    author = { Klein, Gerwin and Huuck, Ralf and Schlich, Bastian },
    title = { Operating System Verification },
    journal = { Journal of automated reasoning },
    publisher = { Springer },
    pages = { 123-124 },
    volume = { 42 },
    number = { 2/4 },
    year = { 2009 },
    address = { Dordrecht [u.a.] },
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    doi = { 10.1007/s10817-009-9126-9 },
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}

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[KLK09]

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  author = { Kopp, R{"u}dger and Leonhardt, Steffen and Kowalewski,
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    Pulmonary Indications: Improving Patient Safety },
  booktitle = { Yearbook of Intensive Care and Emergency Medicine :
    2009 /
    ed. by Jean-Louis Vincent },
  publisher = { Springer },
  pages = { 341-349 },
  volume = { 2009 },
  series = { Yearbook of Intensive Care and Emergency Medicine },
  year = { 2009 },
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  cin = { 120000533000-3533000-2 / 122810 / 611010 },
  url = { http://publications.rwth-aachen.de/record/83542 },
}
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[Klu09]

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  author = { Kl{"u}nder, Daniel },
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  title = { Entwurf eingebetteter Software mit abstrakten
    Zustandsmaschinen und business object notation },
  publisher = { RWTH Aachen, Department of Computer Science },
  pages = { X, 131 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2009 },
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[KP09]

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  editor = { Kowalewski, Stefan and Philippou, Anna },
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    Practice of Software, ETAPS 2009, York, UK, March 22-29,
    2009 ; proceedings / Stefan Kowalewski; Anna Philippou
    (eds.) },
  publisher = { Springer },
  pages = { XVI, 456 S. : graph. Darst. },
  volume = { 5505 },
  series = { Lecture notes in computer science : Theoretical computer
    science and general issues },
  year = { 2009 },
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  typ = { PUB:(DE-HGF)26 },
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  author = { Kopp, R{"u}dger and Walter, Marian and Arens, Jutta and
    Stollenwerk, André and Leonhardt, Steffen and Schmitz-Rode,
    Thomas and Kowalewski, Stefan and Rossaint, Rolf },
  title = { Regelungs- und Sicherheitskonzepte f{"u}r extrakorporale
    zur Lungenunterst{"u}tzung },
  journal = { Biomedizinische Technik = Biomedical engineering },
  publisher = { de Gruyter },
  pages = { 289-297 },
  volume = { 54 },
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  year = { 2009 },
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  author = { Leonhardt, Steffen and Walter, Marian and Wartzek,
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  title = { Regelung des Gasaustauschs f{"u}r die extrakorporale
    Oxygenierung },
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  2067 },
publisher = { VDI-Verl. },
pages = { 281-285 },
series = { VDI-Berichte },
year = { 2009 },
address = { D{"u"}sseldorf },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-172523 },
cin = { 122810 / 611010 / 120000 },
url = { http://publications.rwth-aachen.de/record/99564 },
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  author = { Mitsching, Ralf },
  title = { Testing in the Industrial Development Process for
  Embedded
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  booktitle = { Doctoral Symposium on Systems Software Verification
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  SSV'09) Real Software, Real Problems, Real Solutions ;
  Proceedings },
  publisher = { RWTH Aachen, Department of Computer Science },
  pages = { 23-25 },
  volume = { 2009,14 },
  number = { AIB-2009-14 },
  series = { Aachener Informatik-Berichte : AIB },
  year = { 2009 },
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  reportid = { RWTH-CONV-009584 },
  cin = { 122810 / 120000 },
  url = { http://aib.informatik.rwth-aachen.de/2009/2009-14.pdf },
}

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[MWK+09]

[PDFBIB](#)

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## Towards an industrial strength process for timed testing

### Bibtex entry :

```
@inproceedings { MWK+09,
  author = { Mitsching, Ralf and Weise, Carsten and Kolbe, André and
    Bohnenkamp, Henrik and Berzen, Norbert },
  title = { Towards an industrial strength process for timed testing
},
  booktitle = { International Conference on Software Testing,
Verification
and Validation Workshops, 2009: ICSTW '09 : April 1, 2009,
Denver, Colorado, USA },
  publisher = { IEEE },
  pages = { 29-38 },
  year = { 2009 },
  address = { Piscataway, NJ },
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  url = { http://publications.rwth-aachen.de/record/99554 },
}
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[PBW+09]

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@inproceedings { PBW+09,
  author = { Polzer, Andreas and Botterweck, G{"o}tz and Wagnerin,
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  title = { Variabilit{"a}t im modellbasierten Engineering von
eingebetteten Systemen },
  booktitle = { Informatik 2009 : im Focus das Leben ; Beitr{"a}ge
der 39.
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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.) },
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http://subs.emis.de/LNI/Proceedings/Proceedings154/P-154.pdf },
}

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    author = { Palczynski, Jacob and Kowalewski, Stefan },
    title = { Early Behaviour Modelling for Control Systems },
    booktitle = { 2009 Third UKSim European Symposium on Computer
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Simulation : EMS 2009 ; Athens, Greece, 25 - 27 November
2009 / [technical sponsors: IEEE United Kingdom and Republic
of Island [i.e. Ireland] Section ...]. Ed.: David Al-Dabass
... },
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    year = { 2009 },
    address = { Piscataway, NJ },
    doi = { 10.1109/EMS.2009.69 },
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    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/98844 },
}

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[PKB09]

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*Software Engineering (ICSE 2009); May 16-24, 2009, Piscataway, NJ, 2009, IEEE, pp. 2-10.*

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  author = { Polzer, Andreas and Kowalewski, Stefan and Botterweck,
    G{"o"}tz },
  title = { Applying software product line techniques in model-based
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  pages = { 2-10 },
  year = { 2009 },
  address = { Piscataway, NJ },
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}
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[RBH+09]

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  author = { Reinbacher, Thomas and Brauer, J{"o"}rg and Horauer,
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    microcontroller },
  booktitle = { 2009 IEEE International Symposium on Industrial
    Embedded
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    Systems (SIES 2009) : Lausanne, Switzerland, 08 - 10 July
    2009 / [sponsored by: IEEE Industrial Electronics Society
    (IES)] ),
  publisher = { IEEE },
  pages = { 161-170 },
  year = { 2009 },
  address = { Piscataway, NJ },
  doi = { 10.1109/SIES.2009.5196212 },
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99425 },
}

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[RHS+09]

[PDFBIB](#)

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## Model checking assembly code of an industrial knitting machine

### Bibtex entry :

```

@inproceedings { RHS+09,
  author = { Reinbacher, Thomas and Horauer, Martin and Schlich,
  Bastian
    and Brauer, J{"o}rg and Scheuer, Florian },
  title = { Model checking assembly code of an industrial knitting
  machine },
  booktitle = { Proceedings of the 2009 Fourth International
  Conference on
    Embedded and Multimedia Computing : EM-Com 2009 : [December
    10-12, 2009, Jeju Island, Korea] },
  publisher = { IEEE },
  pages = { 8 S. },
  year = { 2009 },
  address = { Piscataway, NJ },
  doi = { 10.1109/EM-COM.2009.5402986 },
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  reportid = { RWTH-CONV-199048 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/129021 },
}

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[RHS09]

[PDFBIB](#)

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### Bibtex entry :

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@inproceedings { RHS09,
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  year = { 2009 },
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  doi = { 10.1109/DDECS.2009.5012109 },
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99559 },
}
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[SBW+09]

[PDFBIB](#)

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### Bibtex entry :

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  author = { Schlich, Bastian and Brauer, J{"o}rg and Wernerus, J{"o}rg and Kowalewski, Stefan },
  title = { Direct Model Checking of {PLC} Programs in {IL} },
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  year = { 2009 },
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reportid = { RWTH-CONV-236337 },
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url = { http://publications.rwth-aachen.de/record/752318 },
}
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[SFK+09]

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  author = { Schommer, John F. and Franke, Dominik and Kowalewski,
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    and Weise, Carsten },
  title = { Evaluation of the real-time Java runtime environment for
deployment in time-critical systems },
  booktitle = { 7th International Workshop on Java Technologies for
Real-Time and Embedded Systems : JTRES 09 ; Universidad
Complutense de Madrid, Facultad de Informatica, 23-25
September 2009, Madrid, Spain / Workshop Chair: M. Teresa
Higuera-Toledano ... },
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  pages = { 51-60 },
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```

[SJK09]

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@inproceedings { SJK09,  
  author = { Stollenwerk, André and Jongdee, Chate and Kowalewski,  
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[SK09]

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  author = { Schlich, Bastian and Kowalewski, Stefan },  
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[SKW09]

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    [10. Branchentreff der Mess- und Automatisierungstechnik] /
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[SWW+09]

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@article { SWW+09,
author = { Stollenwerk, André and Walter, Marian and Wartzek,
Tobias
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oxygenation },
journal = { The international journal of artificial organs },
publisher = { Wichtig Ed. },
pages = { 428-428 },
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ticle=B21049FA-B9E6-4AF6-96BC-F3AAEB904F59 },
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[SZR+09]

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

### Bibtex entry :

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  author = { Schmitz, Dominik and Zhang, Ming and Rose, Thomas and  
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  applications :  
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[TBG+09]

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[WWS+09]

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[AM08]

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Hotel, Knowloon, Hong Kong / Eds.: S. I. Ao ... },
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    pages = { 1444-1447 },
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[ASK08]

[PDFBIB](#)

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### Bibtex entry :

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  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
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  booktitle = { Proceedings of the 5th International Conference on Embedded
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Technical Committee on Scalable Computing (TCSC). - Vol. 1 },
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}

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[ASK08a]

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# embedded systems

## Bibtex entry :

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Stefan },
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Science and
Software Engineering ; Proceedings ; 12-14 December 2008 •
Wuhan, Hubei, China. - Vol. 4 },
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[ASK08b]

[PDFBIB](#)

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[BKK+08]

[PDFBIB](#)

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### Bibtex entry :

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@inbook { BKK+08,
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  booktitle = { Abstract state machines, B and Z : first
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      proceedings / Egon B{"o}rger ... (eds.) },
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[BSS+08]

[PDFBIB](#)

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}
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[DHH+08]

[PDFBIB](#)

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[DHS+08]

[PDFBIB](#)

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@inproceedings { DHS+08,
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    - technische Innovationen und Entwicklungstrends ; [28.
    Tagung 'Elektronik im Kraftfahrzeug' vom Haus der Technik
    Essen e.V. in M{"u"}nchen (i.e. Dresden!)] / Bernard
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[HFS+08]

[PDFBIB](#)

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@inbook { HFS+08,
  author = { Huuck, Ralf and Fehnker, Ansgar and Seefried, Sean and
    Brauer, J{\\"o}rg },
  title = { Goanna: syntactic software model checking },
  booktitle = { Automated technology for verification and analysis :
6th
  international symposium, ATVA 2008, Seoul, Korea, October 20
- 23, 2008 ; proceedings / Sungdeok (Steve) Cha; Jin-Young
Choi; Moonzoo Kim; Insup Lee; Mahesh Viswanathan (eds.) },
  publisher = { Springer },
  pages = { 216-221 },
  volume = { 5311 },
  series = { Lecture notes in computer science },
  year = { 2008 },
  address = { Berlin [u.a.] },
  organization = { 6th International Symposium on Automated
Technology for
  Verification and Analysis, Seoul (South Korea), 2008-10-20 -
2008-10-23 },
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  typ = { PUB:(DE-HGF)7 },
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```

[HSW+08]

[PDFBIB](#)

Herberich, G., Schlich, B., Weise, C., and Noll, T., "Proving correctness of an efficient abstraction for interrupt handling", *Electronic notes in theoretical computer science : ENTCS*, vol. 217, pp. 133-150, 2008

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### Bibtex entry :

```
@article { HSW+08,  
  author = { Herberich, Gerlind and Schlich, Bastian and Weise,  
  Carsten  
    and Noll, Thomas },  
  title = { Proving correctness of an efficient abstraction for  
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  journal = { Electronic notes in theoretical computer science :  
  ENTCS },  
  publisher = { Elsevier Science },  
  pages = { 133-150 },  
  volume = { 217 },  
  year = { 2008 },  
  address = { Amsterdam [u.a.] },  
  issn = { 1571-0661 },  
  doi = { 10.1016/j.entcs.2008.06.046 },  
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  cin = { 122810 / 121310 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/130980 },  
}
```

[KKK08]

[PDFBIB](#)

Klünder, D., Kameni, D., and Kowalewski, S., "Nahtloser Entwurf sicherheitskritischer, eingebetteter Softwaresysteme mit abstrakten Zustandsmaschinen und Business Object Notation", in *Proc. Entwurf komplexer Automatisierungssysteme, EKA 2008 : Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 10. Fachtagung, 15. bis 16. April 2008 Tutorium, 16. bis 17. April 2008 Fachtagung, Magdeburg, Denkfabrik im Wissenschaftshafen / Ifak, Institut für Automation und Kommunikation e.V., Magdeburg ... Hrsg.: Ulrich Jumar; Eckehard Schneider; Christian Diedrich, Magdeburg, 2008, Universität.*

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### Bibtex entry :

```
@inproceedings { KKK08,  
  author = { Kl{\u}nder, Daniel and Kameni, Dimitri and Kowalewski,  
  Stefan },  
  title = { Nahtloser Entwurf sicherheitskritischer, eingebetteter  
    Softwaresysteme mit abstrakten Zustandsmaschinen und  
    Business Object Notation },  
  booktitle = { Entwurf komplexer Automatisierungssysteme, EKA 2008 :
```

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Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ;
10. Fachtagung, 15. bis 16. April 2008 Tutorium, 16. bis 17.
April 2008 Fachtagung, Magdeburg, Denkfabrik im
Wissenschaftshafen / Ifak, Institut für Automation und
Kommunikation e.V., Magdeburg ... Hrsg.: Ulrich Jumar;
Eckehard Schneider; Christian Diedrich },
publisher = { Universit{"a}t },
year = { 2008 },
address = { Magdeburg },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-171804 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/98748 },
}

```

[KLK08]

[PDFBIB](#)

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## Design-by-Contract for Embedded Systems

### Bibtex entry :

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@inproceedings { KLK08,
  author = { Kl{"u}nder, Daniel and Li, J. and Kowalewski, Stefan },
  title = { Design-by-Contract for Embedded Systems },
  booktitle = { International Symposium on Software Variability: a
    Programmers' Perspective (SVPP 2008) },
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752319 },
}

```

[Klu08]

[PDFBIB](#)

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### Bibtex entry :

```

@inproceedings { Klu08,
  author = { Kl{"u}nder, Daniel },

```



```

title = { Modellierung und Analyse von Fahrzeugsoftware mit
Abstract
State Machines },
booktitle = { Modellierung 2008 : 12. - 14. März 2008, Berlin /
Thomas
Kühne ... (Hrsg.) },
publisher = { Ges. f. Informatik },
pages = { 225-228 },
series = { GI-Edition : Proceedings },
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cin = { 122810 / 120000 },
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http://subs.emis.de/LNI/Proceedings/Proceedings127/gi-proc-127-017.pdf
},
}

```

[MHR+08]

[PDFBIB](#)

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@inproceedings { MHR+08,
author = { Michailidis, Alexander A. and Hedenetz, Bernd and
Ringler,
Thomas and Kowalewski, Stefan },
title = { Virtuelle Integration von vernetzten Funktionen in
frühen Entwicklungsphasen },
booktitle = { 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 },
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typ = { PUB:(DE-HGF)8 },
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url = { http://publications.rwth-aachen.de/record/117851 },
}
```

[NS08]

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```
@inbook { NS08,
  author = { Noll, Thomas and Schlich, Bastian },
  title = { Delayed nondeterminism in model checking embedded systems
    assembly code },
  booktitle = { Hardware and software: verification and testing :
third
  International Haifa Verification Conference, HVC 2007,
  Haifa, Israel, October 23 - 25, 2007 ; proceedings / Karen
  Yorav (ed.) },
  publisher = { Springer },
  pages = { 185-201 },
  volume = { 4899 },
  series = { Lecture notes in computer science },
  year = { 2008 },
  address = { Berlin [u.a.] },
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  cin = { 120000 / 122810 / 121310 },
  url = { http://publications.rwth-aachen.de/record/83461 },
}
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[RKH+08]

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**Bibtex entry :**

```
@inproceedings { RKH+08,  
  author = { Reinbacher, Thomas and Kramer, Michael and Horauer,  
  Martin  
    and Schlich, Bastian },  
  title = { Motivating model checking for embedded systems software  
},  
  booktitle = { 2008 IEEE/ASME International Conference on  
Mechatronic and  
  Embedded Systems and Applications : MESA ; Beijing, China,  
  12 - 15 October 2008 },  
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}
```

[RKH+08a]

[PDFBIB](#)

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```
@inproceedings { RKH+08a,  
  author = { Reinbacher, Thomas and Kramer, Michael and Horauer,  
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  title = { Challenges in embedded model checking : a simulator for  
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  IEEE },  
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  year = { 2008 },  
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doi = { 10.1109/SIES.2008.4577709 },
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reportid = { RWTH-CONV-172528 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/99569 },
}
```

[Sal08]

[PDFBIB](#)

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### Bibtex entry :

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@phdthesis { Sal08,
  author = { Salewski, Falk },
  othercontributors = { Kowalewski, Stefan },
  title = { Empirical evaluations of safety critical embedded systems },
  publisher = { Publikationsserver der RWTH Aachen University },
  pages = { X, 175 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2008 },
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http://publications.rwth-aachen.de/record/459474/files/Salewski_Falk.pdf },
}
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[Sch08]

[PDFBIB](#)

Schlich, B., "Model checking of software for microcontrollers", PhD Thesis, Aachen, 2008.

## Model checking of software for microcontrollers

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@phdthesis { Sch08,
  author = { Schlich, Bastian },
  othercontributors = { Kowalewski, Stefan },
  title = { Model checking of software for microcontrollers },
  publisher = { RWTH Aachen, Department of Computer Science },
  pages = { IV, 159 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
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year = { 2008 },
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cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/63747/files/Schlich_Bastian.pdf },
}

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[SDH+08]

[PDFBIB](#)

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## 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
    Palczynski, Jacob and Polzer, Andreas and Reke, Michael and
    Rose, Thomas },
  title = { Modellbasierte Anforderungserfassung f{"u}r
    softwarebasierte Regelungen },
  booktitle = { Software Engineering 2008 : Fachtagung des GI-
    Fachbereichs
    Softwaretechnik, 18. - 22.02.2008 in M{"u}nchen /
    Gesellschaft f{"u}r Informatik (GI). Korbinian Herrmann;
    Bernd Bruegge (Hrsg.) },
  publisher = { Ges. f{"u}r Informatik },
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}

```

[SGK08]

[PDFBIB](#)

Schlich, B., Gückel, D., and Kowalewski, S., "Modeling the environment of microcontrollers to tackle the state-explosion problem in model checking", in *Proc. Formal methods for automation*

and safety in railway and automotive systems ; proceedings of Symposium FORMS/FORMAT 2008, Budapest, Hungary, October 9 - 10, 2008 / Géza Tarnai ... (ed.), Budapest, 2008, L Harmattan.

## Modeling the environment of microcontrollers to tackle the state-explosion problem in model checking

### Bibtex entry :

```
@inproceedings { SGK08,
  author = { Schlich, Bastian and G{"u}ckel, Dominique and
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  title = { Modeling the environment of microcontrollers to tackle
  the
    state-explosion problem in model checking },
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    automotive systems ; proceedings of Symposium FORMS/FORMAT
    2008, Budapest, Hungary, October 9 - 10, 2008 / Géza Tarnai
    ... (ed.) },
  publisher = { L Harmattan },
  year = { 2008 },
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  url = { http://publications.rwth-aachen.de/record/98749 },
}
```

[SK08]

[PDFBIB](#)

Salewski, F. and Kowalewski, S., "The effect of real-time software reuse in FPGAs and microcontrollers with respect to software faults", in *Proc. 2008 International Symposium on Industrial Embedded Systems : [SIES'2008] ; La Grande Motte, France, 11 - 13 June 2008 / IEEE*, Piscataway, NJ, 2008, IEEE, pp. 141-148.

## The effect of real-time software reuse in FPGAs and microcontrollers with respect to software faults

### Bibtex entry :

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@inproceedings { SK08,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { The effect of real-time software reuse in FPGAs and
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  booktitle = { 2008 International Symposium on Industrial Embedded
  Systems
    : [SIES'2008] ; La Grande Motte, France, 11 - 13 June 2008 /
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    IEEE },
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    url = { http://publications.rwth-aachen.de/record/98747 },
}
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[SK08a]

[PDFBIB](#)

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### Bibtex entry :

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@article { SK08a,
    author = { Salewski, Falk and Kowalewski, Stefan },
    title = { Hardware/software design considerations for automotive
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    journal = { IEEE transactions on industrial informatics },
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    pages = { 156-163 },
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    year = { 2008 },
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}
```

[SLK08]

[PDFBIB](#)

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## to microcontroller assembly code

### Bibtex entry :

```
@inbook { SLK08,
  author = { Schlich, Bastian and L{"o}ll, Jann and Kowalewski,
Stefan },
  title = { Application of static analyses for state space reduction
to
  microcontroller assembly code },
  booktitle = { Formal methods for industrial critical systems : 12th
international workshop, FMICS 2007, Berlin, Germany, July 1
- 2, 2007 ; revised selected papers / Stefan Leue; Pedro
Merino (eds.) },
  publisher = { Springer },
  pages = { 21-37 },
  volume = { 4916 },
  series = { Lecture notes in computer science },
  year = { 2008 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-540-79707-4_4 },
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  url = { http://publications.rwth-aachen.de/record/83462 },
}
```

[ST08]

[PDFBIB](#)

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## Systematic considerations for the application of FPGAs in industrial applications

### Bibtex entry :

```
@inproceedings { ST08,
  author = { Salewski, Falk and Taylor, Adam },
  title = { Systematic considerations for the application of FPGAs in
industrial applications },
  booktitle = { 2008 IEEE International Symposium on Industrial
Electronics
: [ISIE 2008] ; Cambridge, United Kingdom, 30 June - 2 July
2008. - Vol. 4 },
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/98745 },
}
```

[Wil08]

[PDFBIB](#)

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## Empirical studies for the application of agile methods to embedded systems

### Bibtex entry :

```
@phdthesis { Wil08,
  author = { Wilking, Dirk },
  othercontributors = { Kowalewski, Stefan },
  title = { Empirical studies for the application of agile methods to
    embedded systems },
  publisher = { Fachgruppe Informatik, RWTH Aachen },
  pages = { XIV, 157 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2008 },
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http://publications.rwth-aachen.de/record/52375/files/Wilking_Dirk.pdf
},
}
```

[WSK08]

[PDFBIB](#)

Wilking, D., Schilli, D., and Kowalewski, S., "Measuring the human factor with the Rasch Model", in *Proc. Balancing agility and formalism in software engineering : Second IFIP TC 2 Central and East European Conference on Software Engineering Techniques, CEE-SET 2007, Poznań, Poland, October 10-12, 2007 ; revised selected papers / Bertrand Meyer; Jerzy R. Nawrocki; Bartosz Walter (eds.)*, Berlin [u.a.], 2008 in *Lecture notes in computer science*, Springer, pp. 157-168.

## Measuring the human factor with the Rasch Model

### Bibtex entry :

```
@inproceedings { WSK08,
  author = { Wilking, Dirk and Schilli, David and Kowalewski, Stefan
```

```

},
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  booktitle = { Balancing agility and formalism in software
engineering :
    Second IFIP TC 2 Central and East European Conference on
    Software Engineering Techniques, CEE-SET 2007, Poznań,
    Poland, October 10-12, 2007 ; revised selected papers /
    Bertrand Meyer; Jerzy R. Nawrocki; Bartosz Walter (eds.) },
  publisher = { Springer },
  pages = { 157-168 },
  series = { Lecture notes in computer science },
  year = { 2008 },
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  url = { http://publications.rwth-aachen.de/record/127027 },
}

```

[BKK07]

[PDFBIB](#)

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## Significance of the automation engineering

### Bibtex entry :

```

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  author = { Bettenhausen, Kurt D. and Kowalewski, Stefan and Kugi,
    Andreas },
  title = { Significance of the automation engineering },
  journal = { Automatisierungstechnik : at },
  publisher = { Oldenbourg },
  pages = { 269-271 },
  volume = { 55 },
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  doi = { 10.1524/auto.2007.55.5.269 },
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/195234 },
}

```

[CSK+07]

[PDFBIB](#)

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management framework for automotive safety relevant systems"Renningen: expert Verl., 2007, vol. 82.

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### Bibtex entry :

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  author = { Chen, Xi and Salewski, Falk and Kowalewski, Stefan and
    Spisic, Kresimir },
  title = { Concept and prototyping of a fault management framework
for
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  booktitle = { Moderne Elektronik im Kraftfahrzeug II : Systeme von
morgen
    - technische Innovationen und Entwicklungstrends ; und 19
    Tabellen / Hrsg.: Bernard B{"a}ker },
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  volume = { 82 },
  series = { Haus der Technik - Fachbuchreihe },
  year = { 2007 },
  address = { Renningen },
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  url = { http://publications.rwth-aachen.de/record/89875 },
}
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[KK07]

[PDFBIB](#)

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  author = { Kl{"u}nder, Daniel and Kowalewski, Stefan },
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  booktitle = { The 14th International ASM Workshop (ASM'07) / (Ed.)
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  url = {
http://ikt.hia.no/asm07/Proceedings/Papers/Klunder_Kowalewski.pdf },
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}

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url = { http://publications.rwth-aachen.de/record/117072 },
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[SK07b]

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pages = { 78-85 },
year = { 2007 },
address = { Piscataway, NJ },
doi = { 10.1109/SIES.2007.4297320 },
typ = { PUB:(DE-HGF)8 },
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cin = { 122810 / 120000 },
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  author = { Palczynski, Jacob and Schlich, Bastian and Kowalewski, Stefan },
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[SWK06]

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  title = { Architekturen für die Funktionsintegration },
  booktitle = { 25 Jahre Elektronik-Systeme im Kraftfahrzeug :
Rückblick, Ausblick, Visionen ; [25. Tagung 'Elektronik
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(München) : 2005.06.14-15 },
  publisher = { Expert-Verl. },
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}

[BKC+05]

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Rheinische-Westf{"a}lische Technische Hochschule Aachen /
Verant.: Gesellschaft f{"u}r Informatik, Fachgruppe Ada
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  url = { http://publications.rwth-aachen.de/record/110357 },
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  http://pi.informatik.uni-siegen.de/stt/25_4/01_Fachgruppenberichte/Ada/
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  booktitle = { IEEE/NASA Workshop on Leveraging Applications of
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    Methods, Verification, and Validation : IEEE/NASA ISoLA 2005
    ; proceedings of a workshop held at the Loyola College
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    Aeronautics and Space Administration, Goddard Space Flight
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Center. Ed.: Tiziana Margaria ... },
pages = { 65-77 },
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url = { http://publications.rwth-aachen.de/record/111740 },
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  author = { Salewski, Falk and Wilking, Dirk and Kowalewski, Stefan
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[WK05]

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  author = { Wilking, Dirk and Kowalewski, Stefan },
  title = { Agile methods for embedded systems },
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  pages = { 319-320 },
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[WR05]

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[SG94]

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