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@inproceedings { AM08,  
    author = { Afzal, Waqas and Mahmood, Adnan },  
    title = { Design Review of Satellite Telemetry based on CCSDS standards  
and Proposed Hardware Implementation of CanSat },  
    booktitle = { International MultiConference of Engineers and Computer  
Scientists, IMECS 2008 : 19 - 21 March, 2008, Regal Knowloon Hotel,  
Knowloon, Hong Kong / Eds.: S. I. Ao ... },  
    publisher = { IAENG },  
    pages = { 1444-1447 },  
    series = { Lecture notes in engineering and computer science },  
    year = { 2008 },  
    address = { Hong Kong },  
    typ = { PUB:(DE-HGF)8 },  
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http://www.iaeng.org/publication/IMECS2008/IMECS2008_pp1444-1447.pdf },  
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@inproceedings { AMA17,  
    author = { Alrifaaee, Bassam and Maczijekowski, Janis and Abel, Dirk },  
    title = { Sequential Convex Programming MPC for Dynamic Vehicle  
Collision Avoidance },  
    booktitle = { 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 },  
    publisher = { IEEE },  
    pages = { 2202-2207 },  
    year = { 2017 },  
    address = { Piscataway, NJ },  
    organization = { 2017 IEEE Conference on Control Technology and  
Applications, Mauna Lani, HI (USA), 2017-08-27 - 2017-08-30 },  
    doi = { 10.1109/CCTA.2017.8062778 },  
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Alr17,  
    author = { Alrifaaee, Bassam },  
    title = { MATLAB Simulation of Networked Model Predictive Control for  
Vehicle Collision Avoidance },  
    publisher = { Zenodo },  
    year = { 2017 },  
    doi = { 10.5281/zenodo.1252992 },  
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url = { http://publications.rwth-aachen.de/record/724118 },
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@inproceedings { AM18,
  author = { Alrifaae, Bassam and Maczijewski, 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)] },
  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 },
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@inproceedings { AdM+10,
  author = { Arens, Jutta and de Brouwer, Petra and Mager, Ilona and
Kopp, R{"u"}dger and Walter, Marian and Stollenwerk, Andr{e} and Schmitz-Rode,
Thomas and Steinseifer, Ulrich },
  title = { A dynamic study on the hemolytic effect of negative pressure
on blood },
  booktitle = { ASAI0 journal },
  publisher = { Lippincott },
  pages = { 96-96 },
  volume = { 56 },
  number = { 2 },
  year = { 2010 },
  address = { Hagerstown, Md. },
  issn = { 0162-1432 },
  doi = { 10.1097/01.mat.0000369377.65122.a3 },
  typ = { PUB:(DE-HGF)16 },
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@phdthesis { Arm10,
  author = { Armoush, Ashraf },
  othercontributors = { Kowalewski, Stefan },
  title = { Design patterns for safety-critical embedded systems },
  publisher = { Publikationsserver der RWTH Aachen University },
  pages = { XIV, 181 S. : graph. Darst. },
  year = { 2010 },
  address = { Aachen },
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    typ = { PUB:(DE-HGF)11 },
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},
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@inproceedings { ASK08,
    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    title = { A hybrid fault tolerance method for recovery block with a
weak acceptance test },
    booktitle = { Proceedings of the 5th International Conference on
Embedded and Ubiquitous Computing : EUC 2008 ; December 17–20, 2008,
Shanghai, China / Spons. by: IEEE Computer Society Technical Committee on
Scalable Computing (TCSC). - Vol. 1 },
    publisher = { IEEE Computer Society },
    pages = { 484-491 },
    year = { 2008 },
    address = { Los Alamitos, Calif. },
    doi = { 10.1109/EUC.2008.102 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-171798 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/98742 },
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@inproceedings { ASK08a,
    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    title = { Effective pattern representation for safety critical embedded
systems },
    booktitle = { CSSE 2008 : International Conference on Computer Science
and Software Engineering ; Proceedings ; 12-14 December 2008 • Wuhan, Hubei,
China. - Vol. 4 },
    publisher = { IEEE Computer Society },
    pages = { 91-97 },
    year = { 2008 },
    address = { Los Alamitos, Calif. },
    doi = { 10.1109/CSSE.2008.739 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-171799 },
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    url = { http://publications.rwth-aachen.de/record/98743 },
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@inproceedings { ASK08b,
    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    title = { Recovery block with backup voting : a new pattern with
extended representation for safety critical embedded systems },
    booktitle = { 11th International Conference on Information Technology :
ICIT 2008 ; Proceedings ; December 17–20, 2008, Bhubaneswar, India / Edited
by B. S. Panda and Abhaya Nayak. Organized by Orissa Information Technology
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Society ... },
  publisher = { IEEE Computer Society },
  pages = { 232-237 },
  year = { 2008 },
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  doi = { 10.1109/ICIT.2008.60 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-171800 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/98744 },
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@inproceedings { ABK09,
  author = { Armoush, Ashraf and Beckschulze, Eva and Kowalewski, Stefan },
  title = { Safety assessment of design patterns for safety-critical
embedded systems },
  booktitle = { 35th Euromicro Conference on Software Engineering and
Advanced Applications : SEAA 2009 ; August 27-29, 2009 in Patras, Greece },
  publisher = { IEEE },
  pages = { 523-527 },
  year = { 2009 },
  address = { Piscataway, NJ },
  doi = { 10.1109/SEAA.2009.12 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172396 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99430 },
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@inproceedings { AK09,
  author = { Armoush, Ashraf and Kowalewski, Stefan },
  title = { Safety recommendations for safety-critical design patterns },
  booktitle = { Proceedings of the International Workshop on the Design
of Dependable Critical Systems 'Hardware, Software, and Human Factors in
Dependable System Design': DDCS 2009 : September 15, 2009, Hamburg, Germany
; in the framework of The 28th International Conference on Computer Safety,
Reliability and Security SAFECOMP 2009 / Ed. by Achim Wagner, Automation
Laboratory, Institute of Computer Engineering, University of Heidelberg ...
},
  publisher = { Universit{"a"}t },
  pages = { 9-16 },
  year = { 2009 },
  address = { Heidelberg },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172522 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99563 },
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@article { ASK09,
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    author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
    title = { Design pattern representation for safety-critical embedded
systems },
    journal = { Journal of software engineering and applications : JSEA },
    publisher = { Scientific Research Publ. },
    pages = { 1-12 },
    volume = { 2 },
    number = { 1 },
    year = { 2009 },
    issn = { 1945-3116 },
    doi = { 10.4236/jsea.2009.21001 },
    typ = { PUB:(DE-HGF)16 },
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    cin = { 122810 / 120000 },
    url = { http://www.scirp.org/journal/jsea },
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@inbook { AFK+14,
    author = { Armoush, Ashraf and Franke, Dominik and Kalkov, Igor and
Kowalewski, Stefan },
    title = { An Approach for Using Mobile Devices In Industrial Safety-
Critical Embedded Systems },
    booktitle = { Mobile Computing, Applications, and Services : 5th
International Conference, MobiCase 2013, Paris, France, November 7-8, 2013,
Revised Selected Papers },
    publisher = { Springer },
    pages = { 294-297 },
    volume = { 130 },
    series = { Lecture Notes of the Institute for Computer Sciences,
Social-Informatics and Telecommunications Engineering },
    year = { 2014 },
    address = { Cham },
    doi = { 10.1007/978-3-319-05452-0_27 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-203202 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/225590 },
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@inproceedings { BK16,
    author = { Banila, Madalina and Kowalewski, Stefan },
    title = { Ein Ansatz zur automatisierten normgerechten Testplanung
f{"u"}r sicherheitskritische eingebettete Software im Automobilbereich },
    booktitle = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : EKA 2016 :
24.-25.05.2016, 14. Fachtagung mit Tutorium / Ulrich Jumar, Christian
Diedrich (Hrsg.) ; eine Kooperation von ifak (Otto von Guericke
Universit{"a"}t Magdeburg) },
    publisher = { Institut f{"u"}r Automation und Kommunikation e.V.
Magdeburg (An-Institut der Otto-von-Guericke-Universit{"a"}t Magdeburg) },
    pages = { 1-10 },
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    year = { 2016 },
    address = { Magdeburg },
    organization = { 14. Fachtagung Entwurf komplexer
Automatisierungssysteme, Magdeburg (Germany), 2016-05-24 - 2016-05-25 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2017-05172 },
    cin = { 120000 / 122810 },
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@inproceedings { BKN12,
    author = { Barakat, Kamal and Kowalewski, Stefan and Noll, Thomas },
    title = { A Native Approach to Modeling Timed Behavior in the Pi-
Calculus },
    booktitle = { 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 },
    publisher = { IEEE },
    pages = { 253-256 },
    year = { 2012 },
    address = { Piscataway, NJ },
    doi = { 10.1109/TASE.2012.27 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-199583 },
    cin = { 122810 / 121310 / 120000 },
    url = { http://publications.rwth-aachen.de/record/129606 },
}

@inproceedings { BK12,
    author = { Barakat, Kamal and Kowalewski, Stefan },
    title = { Modeling and Verification of Network Protocol Specs using
Timed Pi-Calculus },
    booktitle = { 2012 IV International Congress on Ultra Modern
Telecommunications and Control Systems (ICUMT 2012) : St. Petersburg,
Russia, 3 - 5 October 2012 ; [including workshops] / IEEE },
    publisher = { IEEE },
    pages = { 884-891 },
    year = { 2012 },
    address = { Piscataway, NJ },
    doi = { 10.1109/ICUMT.2012.6459786 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-200920 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/207475 },
}

@techreport { Bar11,
    author = { Barakat, Kamal },
    title = { Introducing Timers to Pi-Calculus },
    pages = { 31 },
    year = { 2011 },
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    typ = { PUB:(DE-HGF)29 },
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    url = { http://publications.rwth-aachen.de/record/752307 },
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@inbook { BKK+08,
    author = { Beckers, J{"o}rg and Kl{"u}nder, Daniel and Kowalewski,
Stefan and Schlich, Bastian },
    title = { Direct support for model checking abstract state machines by
utilizing simulation },
    booktitle = { Abstract state machines, B and Z : first international
conference, ABZ 2008, London, UK, September 16-18, 2008 ; proceedings / Egon
B{"o}rger ... (eds.) },
    publisher = { Springer },
    pages = { 112-124 },
    volume = { 5238 },
    series = { Lecture Notes in Computer Science },
    year = { 2008 },
    address = { Berlin [u.a.] },
    doi = { 10.1007/978-3-540-87603-8_10 },
    typ = { PUB:(DE-HGF)7 },
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    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/83460 },
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@techreport { BBD+11,
    author = { Beckschulze, E. and Boymanns, D. and Duelks, R. and
Gatterdam, T. and Kowalewski, S. and Lang, M. and Salewski, F. and Siegbert,
T. },
    title = { Zuverlaessigkeit von automotive embedded Systems },
    volume = { 231 },
    series = { FAT-Schriftenreihe },
    year = { 2011 },
    typ = { PUB:(DE-HGF)29 },
    reportid = { RWTH-CONV-236311 },
    cin = { 122810 / 120000 },
    url = { https://d-nb.info/1053546777/34 },
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@inproceedings { BSS+08,
    author = { Beckschulze, Eva and Salewski, Falk and Siegbert, Thomas and
Kowalewski, Stefan },
    title = { Fault handling approaches on dual-core microcontrollers in
safety-critical automotive applications },
    booktitle = { Leveraging applications of formal methods, verification
and validation : third international symposium, ISoLA 2008, Porto Sani,
Greece, October 13 - 15, 2008 ; proceedings / Tiziana Margaria ... (ed.) },
    publisher = { Springer },
    pages = { 82-92 },
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series = { Communications in computer and information science },
year = { 2008 },
address = { Berlin [u.a] },
doi = { 10.1007/978-3-540-88479-8_7 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-171611 },
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@inproceedings { BSK09,
  author = { Beckschulze, Eva and Salewski, Falk and Kowalewski, Stefan },
  title = { A Comparison of Dual-Core Approaches for Safety-Critical Automotive Applications },
  booktitle = { Safety-critical systems, 2009 : [held during the SAE 2009 world congress, held April 20 - 23, 2009 in Detroit, Michigan, USA] / SAE International },
  publisher = { SAE Intern. },
  pages = { 209-216 },
  series = { SAE-SP },
  year = { 2009 },
  address = { Warrendale, Pa. },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-191094 },
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  url = { http://publications.rwth-aachen.de/record/120032 },
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@inproceedings { BBS+11,
  author = { Beckschulze, Eva and Brauer, Jörg and Stollenwerk, André and Kowalewski, Stefan },
  title = { Analyzing Embedded Systems Code for Mixed-Critical Systems Using Hybrid Memory Representations },
  booktitle = { 2011 14th IEEE International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing workshops (ISORCW) : 28 - 31 March 2011, Newport Beach, California, USA ; proceedings },
  publisher = { IEEE },
  pages = { 33-40 },
  year = { 2011 },
  address = { Piscataway, NJ },
  organization = { 14th IEEE International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing, Newport Beach, CA (USA), 2011-03-28 - 2011-08-31 },
  doi = { 10.1109/ISORCW.2011.40 },
  typ = { PUB:(DE-HGF)7 },
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@inproceedings { BBK12,  
  author = { Beckschulze, Eva and Biallas, Sebastian and Kowalewski,  
Stefan },  
  title = { Static Analysis of Lockless Microcontroller C Programs },  
  booktitle = { Proceedings Seventh Conference on Systems Software  
Verification (SSV 2012) : Sydney, Australia, 28-30 November 2012 / Franck  
Cassez, Ralf Huuck, Gerwin Klein and Bastian Schlich },  
  pages = { 103-114 },  
  series = { Electronic proceedings in theoretical computer science :  
EPTCS },  
  year = { 2012 },  
  address = { Sydney, Australia },  
  doi = { 10.4204/EPTCS.102.10 },  
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@article { BBK12a,  
  author = { Beckschulze, Eva and Brauer, J{"o}rg and Kowalewski, Stefan  
},  
  title = { Access-Based Localization for Octagons },  
  journal = { Electronic notes in theoretical computer science : ENTCS },  
  publisher = { Elsevier Science },  
  pages = { 29-40 },  
  volume = { 287 },  
  year = { 2012 },  
  address = { Amsterdam [u.a.] },  
  issn = { 1571-0661 },  
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@inproceedings { BKC+09,  
  author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan and Chávez  
Grunewald, Martin Guillermo and Abel, Dirk },  
  title = { Safety assessment of networked vehicle platoon controllers :  
practical experiences with available tools },  
  booktitle = { ADHS'09: 3rd IFAC Conference on Analysis and Design of  
Hybrid : September 16, 17 - 18, University of Zaragoza, Spain / Aragón  
Institute for Engineering Research },  
  publisher = { University of Zaragoza },  
  year = { 2009 },  
  address = { Zaragoza, Spain },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-172519 },  
  cin = { 122810 / 416610 / 120000 },  
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@inproceedings { BMH+11,
  author = { Ben Makhlouf, Ibtissem and Maschuw, Jan P. and H{"a}nsch,
Paul and Diab, Hilal and Kowalewski, Stefan and Abel, Dirk },
  title = { Safety Verification of a Cooperative Vehicle Platoon
withUncertain Inputs Using Zonotopes },
  booktitle = { Proceedings of the 18th IFAC World Congress, 2011 :
August 28 - September 2, 2011, Università Cattolica del Sacro Cuore, Milano
Italy / Ed.: Sergio Bittanti ... },
  publisher = { Curran },
  pages = { 9769-9774 },
  series = { IFAC-PapersOnLine },
  year = { 2011 },
  address = { Milano, Italy },
  doi = { 10.3182/20110828-6-IT-1002.02165 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-173769 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/100991 },
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@inproceedings { BK06,
  author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },
  title = { An evaluation of two recent reachability analysis tools for
hybrid systems },
  booktitle = { Preprints / ADHS '06, 2nd IFAC Conference on Analysis and
Design of Hybrid Systems : Alghero, Italy, June 7 - 9, 2006 / IFAC,
International Federation of Automatic Control; DIEEE, Dipartimento di
Ingegneria Elettrica ed Elettronica, Università di Cagliari. Ed.: C. G.
Cassandras ... },
  pages = { 377-382 },
  year = { 2006 },
  address = { Alghero },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188518 },
  cin = { 122810 / 120000 },
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http://www.ifac-papersonline.net/cgi-bin/links/page.cgi?g=Detailed/30190.htm
l;d=1 },
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@inproceedings { BDK12,
  author = { Ben Makhlouf, Ibtissem and Diab, Hilal and Kowalewski,
Stefan },
  title = { Safety Verification of a Controlled Cooperative Platoon Under
Loss of Communication Using Zonotopes },
  booktitle = { Inproceeding of the 4th IFAC Conference on Analysis and
Design of Hybrid Systems (ADHS 12), Eindhoven, NL },
  pages = { 333-338 },
  year = { 2012 },
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doi = { 10.3182/20120606-3-NL-3011.00053 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-200116 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/197942 },
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@inproceedings { BHK13,
  author = { Ben Makhlouf, Ibtissem and H{"a"}nsch, Paul and Kowalewski,
Stefan },
  title = { Comparison of Reachability Methods for Uncertain Linear Time-
Invariant Systems },
  booktitle = { Proceedings of the 12th European Control Conference (ECC)
: July 17 -19, 2013, Zuerich, Switzerland },
  publisher = { Omnipress },
  pages = { 1101-1106 },
  year = { 2013 },
  address = { Z{"u"}rich },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-202859 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/225184 },
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@inproceedings { BDK13,
  author = { Ben Makhlouf, Ibtissem and Diab, Hilal and Kowalewski,
Stefan },
  title = { Reachability Analysis for Managing Platoons at Intersections
},
  booktitle = { 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 },
  publisher = { IEEE },
  pages = { 1141-1147 },
  year = { 2013 },
  address = { Piscataway, NJ },
  doi = { 10.1109/MED.2013.6608864 },
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  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226951 },
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@inproceedings { BK14,
  author = { Ben Makhlouf, Ibtissem and Kowalewski, Stefan },
  title = { Networked Cooperative Platoon of Vehicles for Testing Methods
and Verification Tools },
  booktitle = { ARCH14 CPSWeek 2014 : Berlin, Germany, April 14 - 17,
2014 },
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pages = { 6 Seiten },
year = { 2014 },
address = { [s.l.] },
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reportid = { RWTH-CONV-205606 },
cin = { 120000 / 122810 },
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@article { BGK15,
  author = { Ben Makhlouf, Ibtissem and Gan, Jonathan and Kowalewski,
Stefan },
  title = { A Study on Solving Guard and Invariant Set Intersection in
Zonotope-based Reachability of Linear Hybrid Systems },
  journal = { IFAC-PapersOnLine },
  publisher = { IFAC },
  pages = { 13-20 },
  volume = { 48 },
  number = { 27 },
  year = { 2015 },
  address = { Laxenburg },
  issn = { 2405-8963 },
  organization = { Analysis and Design of Hybrid Systems, Atlanta GA
(USA), 2015-10-14 - 2015-10-16 },
  doi = { 10.1016/j.ifacol.2015.11.146 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2015-07851 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/565384 },
}

@phdthesis { Ben16,
  author = { Ben Makhlouf, Ibtissem },
  othercontributors = { Kowalewski, Stefan and Frehse, Goran },
  title = { Comparative evaluation and improvement of computational
approaches to reachability analysis of linear hybrid systems },
  publisher = { Shaker Verlag },
  school = { RWTH Aachen },
  pages = { viii, 221 Seiten : Illustrationen, Diagramme },
  series = { Aachener Informatik-Berichte },
  year = { 2016 },
  address = { Aachen },
  isbn = { 978-3-8440-4376-1 },
  typ = { PUB:(DE-HGF)3 },
  reportid = { RWTH-2016-02174 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/571624/files/571624.pdf },
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@inbook { BK15,
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```
    author = { Ben Makhoulouf, Ibtissem and Kowalewski, Stefan },
    title = { Networked Cooperative Platoon of Vehicles for Testing Methods
and Verification Tools },
    booktitle = { [ARCH14-15. 1st and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems / Goran Frehse and Matthias
Althoff (editors)] },
    publisher = { EasyChair },
    pages = { 37-42 },
    volume = { 34 },
    series = { EPiC Series in Computer Science },
    year = { 2015 },
    organization = { 1st and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-207903 },
    cin = { 122810 / 120000 },
    url = {
http://www.easychair.org/publications/download/Networked_Cooperative_Platoon
_of_Vehicles_for_Testing_Methods_and_Verification_Tools },
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@inbook { BK15a,
    author = { Ben Makhoulouf, Ibtissem and Kowalewski, Stefan },
    title = { Optimizing Safe Control of a Networked Platoon of Trucks
Using Reachability },
    booktitle = { [ARCH14-15. 1st and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems / Goran Frehse and Matthias
Althoff (editors)] },
    publisher = { EasyChair },
    pages = { 169-179 },
    volume = { 34 },
    series = { EPiC Series in Computing },
    year = { 2015 },
    organization = { 1st and 2nd International Workshop on Applied
veRification for Continuous and Hybrid Systems },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207910 },
    cin = { 122810 / 120000 },
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}
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@inproceedings { BHK17,
    author = { Ben Makhoulouf, Ibtissem and Hansen, Norman and Kowalewski,
Stefan },
    title = { HyReach: A Reachability Tool for Linear Hybrid Systems Based
on Support Functions },
    booktitle = { ARCH16. 3rd International Workshop on Applied
Verification for Continuous and Hybrid Systems / Editors: Goran Frehse and
Matthias Althoff },
    pages = { 68-79 },
    series = { EPiC Series in Computing },
```

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    year = { 2017 },
    organization = { 3rd International Workshop on Applied Verification for
Continuous and Hybrid Systems, Vienna (Austria), 2016-04-12 - 2016-04-12 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-213474 },
    cin = { 122810 / 120000 },
    url = { https://easychair.org/publications/paper/334327 },
}
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@article { BKK07,
    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 },
    number = { 5 },
    year = { 2007 },
    address = { M{"u"}nchen },
    issn = { 0178-2312 },
    doi = { 10.1524/auto.2007.55.5.269 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-070610 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/195234 },
}
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@inproceedings { BBK12b,
    author = { Biallas, Sebastian and Brauer, J{"o"}rg and Kowalewski,
Stefan },
    title = { Arcade.PLC : a Verification Platform for Programmable Logic
Controllers },
    booktitle = { 2012 proceedings of the 27th IEEE/ACM International
Conference on Automated Software Engineering (ASE 2012) : Essen, Germany, 3
- 7 September 2012 },
    publisher = { IEEE },
    pages = { 338-341 },
    year = { 2012 },
    address = { Piscataway, NJ },
    doi = { 10.1145/2351676.2351741 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-170936 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/97761 },
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@inproceedings { BKS11,
    author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,
Bastian },
    title = { Leistungsf{"a"}hige Verifikation von industriellen SPS-
```

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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. },
  pages = { 67-72 },
  series = { VDI-Berichte },
  year = { 2011 },
  address = { D{"u"}sseldorf },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-189475 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/118212 },
}
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@inproceedings { BBK10,
  author = { Biallas, Sebastian and Brauer, J{"o"}rg and Kowalewski,
Stefan },
  title = { Counterexample-Guided Abstraction Refinement for PLCs },
  booktitle = { 5th International Workshop on Systems Software
Verification (SSV 2010), Vancouver, Canada },
  year = { 2010 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-189856 },
  cin = { 122810 / 120000 },
  url = {
http://www.embedded.rwth-aachen.de/lib/exe/fetch.php?media=bib:bbk10.pdf },
}
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@inproceedings { BFK+10,
  author = { Biallas, Sebastian and Frey, Georg and Kowalewski, Stefan
and Schlich, Bastian and Soliman, Doaa },
  title = { Formale Verifikation von Sicherheits-Funktionsbausteinen der
PLCopen auf Modell- und Code-Ebene },
  booktitle = { Entwurf komplexer Automatisierungssysteme : EKA 2010 ;
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 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; Otto-von-Guericke-Universit{"a"}t Magdeburg, Institut
f{"u"}r Automatisierungstechnik. [Hrsg.: Ulrich Jumar, Eckehard Schnieder,
Christian Diedrich] },
  publisher = { ifak },
  pages = { 49-57 },
  year = { 2010 },
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  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-190099 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/118924 },
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@inproceedings { BBG+10,  
  author = { Biallas, Sebastian and Brauer, J{"o}rg and G{"u}ckel,  
Dominique and Kowalewski, Stefan },  
  title = { On-The-Fly Path Reduction },  
  booktitle = { 4th International Workshop on Harnessing Theories for  
Tool Support in Software : TTSS'10 ; East China Normal University, Shanghai,  
China, November 15, 2010 ; Preliminary Proceedings / Eds.: Min Zhang and  
Volker Stolz },  
  publisher = { UNU-IIST },  
  pages = { 108-122 },  
  series = { UNU-IIST Report },  
  year = { 2010 },  
  address = { Macau },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-190152 },  
  cin = { 122810 / 120000 },  
  url = { http://i.unu.edu/unu/u/publication/000/001/286/report444.pdf },  
}
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@inproceedings { BKS12,  
  author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,  
Bastian },  
  title = { Automatische Wertebereichsanalyse von SPS-Programmen },  
  booktitle = { Automation 2012 : der 13. Branchentreff der Mess- und  
Automatisierungstechnik / VDI/VDE-Gesellschaft Mess- und  
Automatisierungstechnik ; Kongress 'Automation 2012' ; 13 (Baden-Baden) ;  
2011.06.13-14Branchentreff der Mess- und Automatisierungstechnik },  
  publisher = { VDI-Verl. },  
  pages = { 79-83 },  
  series = { VDI-Berichte },  
  year = { 2012 },  
  address = { D{"u}sseldorf },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-191631 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/120638 },  
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@inproceedings { BBK11,  
  author = { Biallas, Sebastian and Brauer, J{"o}rg and Kowalewski,  
Stefan },  
  title = { SAT-Based Abstraction Refinement for Programmable Logic  
Controllers },  
  booktitle = { 3rd International Workshop on Dependable Control of  
Discrete Systems 2011, DCDS 2011, Saarbr{"u}cken, Germany, 15th-17th June  
2011 },  
  publisher = { IEEE },  
  pages = { 96-101 },  
  year = { 2011 },  
  address = { Piscataway, NJ },  
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    reportid = { RWTH-CONV-194508 },
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    url = { http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=05970325 },
}

@inproceedings { BBK+11,
    author = { Biallas, Sebastian and Brauer, J{"o}rg and Kowalewski,
Stefan and Schlich, Bastian },
    title = { Automatically Deriving Symbolic Invariants for PLC Programs
Written in IL },
    booktitle = { Formal methods for automation and safety in railway and
automotive systems : FORMS/FORMAT 2010 ; [8th symposium ; proceedings] /
Eckehard Schnieder; Géza Tarnai, eds. },
    publisher = { Springer },
    pages = { 237-245 },
    year = { 2011 },
    address = { Heidelberg [u.a.] },
    doi = { 10.1007/978-3-642-14261-1 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-196797 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/126461 },
}

@article { BKS12a,
    author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,
Bastian },
    title = { Automatische Wertebereichsanalyse -- Formale Verifikation
f{"u"}r SPS-Programme },
    journal = { Automatisierungstechnische Praxis : atp },
    publisher = { Oldenbourg Industrieverl. },
    pages = { 68-74 },
    volume = { 54 },
    number = { 7/8 },
    year = { 2012 },
    address = { M{"u"}nchen },
    issn = { 0178-2320 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-015025 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/133988 },
}

@inproceedings { BBK13,
    author = { Biallas, Sebastian and Bohlender, Dimitri and Kowalewski,
Stefan },
    title = { Boolean and Modular Abstractions for Programmable Logic
Controllers },
    booktitle = { Dependable Control of Discrete Systems : DCDS13. - Vol.
4, P. 1 },
    publisher = { IFAC },
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pages = { 97-102 },
year = { 2013 },
address = { Laxenburg },
doi = { 10.3182/20130904-3-UK-4041.00011 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-203363 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/225788 },
}

@inbook { BGK13,
  author = { Biallas, Sebastian and Giacobbe, Mirco and Kowalewski,
Stefan },
  title = { Predicate Abstraction for Programmable Logic Controllers },
  booktitle = { Formal Methods for Industrial Critical Systems : 18th
International Workshop, FMICS 2013, Madrid, Spain, September 23-24, 2013.
Proceedings / edited by Charles Pecheur, Michael Dierkes },
  publisher = { Springer Berlin Heidelberg ; Imprint: Springer },
  pages = { 123-138 },
  volume = { 8187 },
  series = { Lecture notes in computer science },
  year = { 2013 },
  address = { Berlin, Heidelberg ; s.l. },
  doi = { 10.1007/978-3-642-41010-9_9 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203367 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/225793 },
}

@inbook { BKK+13,
  author = { Biallas, Sebastian and Kamin, Volker and Kowalewski, Stefan
and Schlich, Bastian and Sehestedt, Stephan and Stattelman, Stefan },
  title = { Verifikation von sicherheitsgerichteten SPS-Programmen mit
Hilfe von Safety-Automaten },
  booktitle = { Automation 2013 : 14. Branchentreff der Mess- und
Automatisierungstechnik ; Kongresshaus Baden-Baden, 25. und 26. Juni 2013 /
VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik },
  publisher = { VDI-Verl. },
  pages = { 75-79 },
  volume = { 2209 },
  series = { VDI-Berichte },
  year = { 2013 },
  address = { D{\\"u}sseldorf },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203699 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226206 },
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@inproceedings { BKS+14,
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```
author = { Biallas, Sebastian and Kowalewski, Stefan and Stattelmann,
Stefan and Schlich, Bastian },
title = { Efficient Handling of States in Abstract Interpretation of
Industrial Programmable Logic Controller Code },
booktitle = { Discrete Event Systems : [Proc. Proceedings of the 12th
International Workshop on Discrete Event Systems, Cachan, France, 2014] /
Conference Editor: Lesage, Jean-Jacques, Faure, Jean-Marc, Cury, Jose E. R.,
Lennartson, Bengt },
publisher = { IFAC },
pages = { 400-405 },
year = { 2014 },
address = { Cachan, France },
doi = { 10.3182/20140514-3-FR-4046.00065 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-205968 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/443854 },
}
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@article { BFS+15,
author = { Biallas, Sebastian and Friedrich, Nico and Simon, Hendrik
and Kowalewski, Stefan },
title = { Automatic Error Cause Localization of Faulty PLC Programs },
journal = { IFAC-PapersOnLine },
publisher = { IFAC },
pages = { 79-84 },
volume = { 48 },
number = { 7 },
year = { 2015 },
address = { Laxenburg },
issn = { 2405-8963 },
organization = { 5th IFAC International Workshop on Dependable Control
of Discrete Systems, Cancun (Mexico), 2015-05-27 - 2015-05-29 },
doi = { 10.1016/j.ifacol.2015.06.476 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2016-03746 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/573801 },
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@inbook { BSK+15,
author = { Biallas, Sebastian and Simon, Hendrik and Kowalewski, Stefan
and Hauck-Stattelmann, Stefan and Schlich, Bastian },
title = { Automatische Testfallgenerierung f{"u"}r SPS-Programme
mittels Zeilen{"u"}berdeckung },
booktitle = { Automation 2015 : benefits of change - the future of
automation ; 16. Branchentreff der Mess- und Automatisierungstechnik ;
Kongresshaus Baden-Baden, 11. und 12. Juni 2015 / VDI/VDE-Gesellschaft Mess-
und Automatisierungstechnik. - Bd. 1 },
publisher = { VDI },
pages = { 95-106 },
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volume = { 2258,2 },
series = { VDI-Berichte },
year = { 2015 },
address = { D{"u}sseldorf },
organization = { 16. Branchentreff der Mess-und Automatisierungstechnik
Automation 2015, Baden-Baden (Germany), 2015-06-11 - 2015-06-12 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-207912 },
cin = { 122810 / 120000 },
url = { http://publications.embedded.rwth-aachen.de/file/5r },
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@phdthesis { Bial6,
author = { Biallas, Sebastian },
othercontributors = { Kowalewski, Stefan and Fay, Alexander },
title = { Verification of programmable logic controller code using
model checking and static analysis },
publisher = { Shaker Verlag },
school = { RWTH Aachen University },
pages = { 1 Online-Ressource (x, 153 Seiten) : Illustrationen,
Diagramme },
series = { Aachener Informatik Berichte },
year = { 2016 },
address = { Aachen },
isbn = { 978-3-8440-4711-0 },
typ = { PUB:(DE-HGF)29 },
reportid = { RWTH-2016-06614 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/668156/files/668156.pdf },
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@inproceedings { BMC+13,
author = { Biallas, Sebastian and Mads, Chr. Olesen and Cassez, Franck
and Huuck, Ralf },
title = { PtrTracker: Pragmatic pointer analysis },
booktitle = { 2013 IEEE 13th International Working Conference on Source
Code Analysis and Manipulation (SCAM) : 22 - 23 Sept. 2013, Eindhoven, the
Netherlands / sponsors: IEEE Computer Society Technical Council on Software
Engineering ... Ed.: Bram Adams ... },
publisher = { IEEE },
pages = { 69-73 },
year = { 2013 },
address = { Piscataway, NJ },
organization = { 2013 IEEE 13th International Working Conference on
Source Code Analysis and Manipulation, Eindhoven (Netherlands), 2013-09-22 -
2013-09-23 },
doi = { 10.1109/SCAM.2013.6648186 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236321 },
cin = { 122810 / 120000 },
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url = { http://publications.rwth-aachen.de/record/752296 },
}

@inproceedings { BKS12b,
  author = { Biallas, Sebastian and Kowalewski, Stefan and Schlich,
Bastian },
  title = { Range and Value-Set Analysis for Programmable Logic
Controllers },
  booktitle = { Proceedings of the 11th International Workshop on
Discrete Event Systems },
  publisher = { IFAC },
  pages = { 378-383 },
  year = { 2012 },
  address = { Guadalajara, Mexico },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236327 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752302 },
}

@inproceedings { BBK+12,
  author = { Biallas, Sebastian and Brauer, J{"o}rg and King, Andy and
Kowalewski, Stefan },
  title = { Loop Leaping with Closures },
  booktitle = { Static Analysis : 19th International Symposium, SAS 2012,
Deauville, France, September 11-13, 2012. Proceedings / edited by Antoine
Miné, David Schmidt },
  publisher = { Springer },
  pages = { 214-230 },
  series = { Lecture Notes in Computer Science },
  year = { 2012 },
  address = { Berlin, Heidelberg },
  organization = { Static Analysis : 19th International Symposium,
Deauville (France), 2012-09-11 - 2012-09-13 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236335 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752305 },
}

@inproceedings { BSK16,
  author = { Bohlender, Dimitri and Simon, Hendrik and Kowalewski, Stefan
},
  title = { Symbolic verification of PLC safety-applications based on
PLCopen automata },
  booktitle = { MBMV 2016 : 19. GI/ITG/GMM-Workshop "Methoden und
Beschreibungssprachen zur Modellierung und Verifikation von Schaltungen und
Systemen" : Albert-Ludwigs-Universit{"a"}t Freiburg im Breisgau 1.-2.
M{"a"}rz 2016 / Ralf Wimmer (Herausgeber) },
  publisher = { Albert-Ludwigs-Universit{"a"}t },
  pages = { 33-45 },
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    year = { 2016 },
    address = { Freiburg im Breisgau },
    organization = { 19. GI/ITG/GMM-Workshop "Methoden und
Beschreibungssprachen zur Modellierung und Verifikation von Schaltungen und
Systemen", Freiburg im Breisgau (Germany), 2016-03-01 - 2016-03-02 },
    doi = { 10.6094/UNIFR/10636 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-207902 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/573821/files/573821.pdf },
}

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@inproceedings { BSF+16,
    author = { Bohlender, Dimitri and Simon, Hendrik and Friedrich, Nico
and Kowalewski, Stefan and Hauck-Stattelmann, Stefan },
    title = { Concolic test generation for PLC programs using coverage
metrics },
    booktitle = { 2016 13th International Workshop on Discrete Event
Systems (WODES) : May 30-June 1, 2016, Xi'an, China / edited by Christos G.
Cassandras, Alessandro Giua, Zhiwu Li ; sponsored by IEEE - Control Systems
Society },
    publisher = { IEEE },
    pages = { 432-437 },
    year = { 2016 },
    address = { Piscataway, NJ },
    organization = { 13th International Workshop on Discrete Event Systems,
Xi'an (Peoples R China), 2016-05-30 - 2016-06-01 },
    doi = { 10.1109/WODES.2016.7497884 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2016-11193 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/679431 },
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@inproceedings { BSK+16,
    author = { Bohlender, Dimitri and Simon, Hendrik and Kowalewski, Stefan
and Hauck-Stattelmann, S. },
    title = { Symbolische Ausf{\u}hrung zum Testen von SPS-Programmen },
    booktitle = { Automation 2016 : secure & reliable in the digital world
: 17. Branchentreff der Mess- und Automatisierungstechnik : Baden-Baden, 07.
und 08. Juni 2016 / VDI/VDE Mess- und Automatisierungstechnik },
    publisher = { VDI Verlag GmbH },
    pages = { 13-14 },
    series = { VDI-Berichte },
    year = { 2016 },
    address = { D{\u}sseldorf },
    organization = { 17. Branchentreff der Mess- und
Automatisierungstechnik, Baden-Baden (Germany), 2016-06-07 - 2016-06-08 },
    typ = { PUB:(DE-HGF)7 },
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    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/680852 },
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@article { BK18,
  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 (Italy), 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 },
}

@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 },
  reportid = { RWTH-2018-231948 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752219 },
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@inproceedings { BHK18,
  author = { Bohlender, 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
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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> },
 }

@article { BK19,
 author = { Bohlander, Dimitri and Kowalewski, Stefan },
 title = { Leveraging Horn clause solving for compositional verification of PLC software },
 journal = { Discrete event dynamic systems },
 publisher = { Springer Science + Business Media B.V },
 pages = { 1-24 },
 volume = { 30 },
 year = { 2019 },
 address = { Dordrecht [u.a.] },
 issn = { 1573-7594 },
 doi = { 10.1007/s10626-019-00296-8 },
 typ = { PUB:(DE-HGF)16 },
 reportid = { RWTH-2019-12207 },
 cin = { 122810 / 120000 },
 url = { <http://publications.rwth-aachen.de/record/775404> },
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@article { BK19a,
 author = { Bohlander, Dimitri and K{"o}hl, Maximilian A. },
 title = { Towards a Characterization of Explainable Systems },
 year = { 2019 },
 typ = { PUB:(DE-HGF)25 },
 reportid = { RWTH-2020-01624 },
 cin = { 122810 / 120000 },
 url = { <https://arxiv.org/abs/1902.03096> },
 }

@article { BCK+19,
 author = { Bohlander, Dimitri and Chiyah Garcia, Francisco J. and K{"o}hl, Maximilian and Menghi, Claudio and Wortmann, Andreas },
 title = { On Explainability and its Characterization },
 journal = { Explainable Software for Cyber-Physical Systems (ES4CPS) : Report from the GI Dagstuhl Seminar 19023 : January 06-11 2019, Schloss

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Dagstuhl / Edited By: Joel Greenyer ; Malte Lochau ; Thomas Vogel },
  pages = { 4-7 },
  year = { 2019 },
  organization = { GI Dagstuhl Seminar 19023 on Explainable Software for
Cyber-Physical Systems, Dagstuhl (Germany), 2019-01-06 - 2019-01-11 },
  doi = { 10.18154/RWTH-2020-01625 },
  typ = { PUB:(DE-HGF)25 },
  reportid = { RWTH-2020-01625 },
  cin = { 122810 / 120000 / 121510 },
  url = {
http://publications.rwth-aachen.de/record/782047/files/782047.pdf },
}

@inproceedings { BCK+05,
  author = { Bollig, Alexander and Chevalier, Wolf and Kowalewski, Stefan
and Florissen, G. },
  title = { Architekturen f{"u}r die Funktionsintegration },
  booktitle = { 25 Jahre Elektronik-Systeme im Kraftfahrzeug :
R{"u}ckblick, Ausblick, Visionen ; [25. Tagung 'Elektronik im
Kraftfahrzeug' vom Haus der Technik Essen e.V. in M{"u}nchen] / Bernard
B{"a}ker (Hrsg.) u. 43 Mitautoren : 2005.06.14-15. Electronics in Vehicles
Conference ; 25 (M{"u}nchen) : 2005.06.14-15 },
  publisher = { Expert-Verl. },
  series = { Haus der Technik Fachbuch },
  year = { 2005 },
  address = { Renningen },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-181605 },
  cin = { 416610 / 122810 },
  url = { http://publications.rwth-aachen.de/record/109503 },
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@inproceedings { BKC+05,
  author = { Bollig, Alexander and Kowalewski, Stefan and Chevalier, Wolf
and Florissen, G. },
  title = { Architekturen f{"u}r die Funktionsintegration },
  booktitle = { 14. Aachener Kolloquium Fahrzeug- und Motorentchnik :
04. - 06. Oktober 2005, Eurogress Aachen = 14. Aachen Colloquium Automobile
and Engine Technology / [Hrsg.: VKA, Lehrstuhl f{"u}r
Verbrennungskraftmaschinen Aachen ...] Wiss. Leitung: Stefan Pischinger ....
- Bd. 1. 05. Oktober 2005 },
  publisher = { ika },
  pages = { 551-562 },
  year = { 2005 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-182116 },
  cin = { 416610 / 122810 },
  url = { http://publications.rwth-aachen.de/record/110043 },
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@proceedings { BGL+10,  
  editor = { Bollue, Kai and G{"u}ckel, Dominique and Loup, Ulrich and  
Sp{"o"}nemann, Jacob and Winkler, Melanie },  
  title = { Proceedings of the Joint Workshop of the German Research  
Training Groups in Computer Science : May 31 - June 2, 2010 },  
  publisher = { Verlagshaus Mainz },  
  pages = { 213 Seiten },  
  year = { 2010 },  
  organization = { Joint Workshop of the German Research Training Groups  
in Computer Science, Wadern (Germany), 2010-05-31 - 2010-06-02 },  
  typ = { PUB:(DE-HGF)26 },  
  reportid = { RWTH-CONV-236345 },  
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@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 },  
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https://www.vdi.de/ueber-uns/presse/publikationen/details?tx\_vdi\_publications  
\_publicationdetails%5Bpublication%5D=19&cHash=e6b4c230eafa31d95ceb75395274c7  
8c },  
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@inproceedings { BPK09,  
  author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,  
Stefan },  
  title = { Using higher-order transformations to derive variability  
mechanism },  
  booktitle = { ACES-MB 2009 : Model Based Architecting and Construction  
of Embedded Systems ; Proceedings of the 2nd International Workshop on Model  
Based Architecting and Construction of Embedded Systems ; held as part of  
the 2009 International Conference on Model Driven Engineering Languages and  
Systems (MoDELS'09) ; Denver, Colorado, USA, October 6, 2009 / Ed. by:  
Stefan Van Baelen ... },  
  publisher = { RWTH Aachen },  
  pages = { 107-121 },  
  series = { CEUR Workshop Proceedings },
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    year = { 2009 },
    address = { Aachen, Germany },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-172337 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99369 },
}

@inproceedings { BPK09a,
    author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,
Stefan },
    title = { Interactive configuration of embedded systems product lines
},
    booktitle = { Proceedings of the 13th International Software Product
Line Conference, SPLC 2009 : 24-28 August 2009, San Francisco, California,
USA / IEEE Computer Society. John D. McGregor; ... (Eds.) },
    publisher = { IEEE },
    pages = { 52-58 },
    year = { 2009 },
    address = { Piscataway, NJ },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-172338 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99370 },
}

@inproceedings { BPP+09,
    author = { Botterweck, G{"o"}tz and Pleuss, Andreas and Polzer, Andreas
and Kowalewski, Stefan },
    title = { Towards Feature-driven Planning of Product-Line Evolution },
    booktitle = { Proceedings of the first International Workshop on
Feature-Oriented Software Development (FOSD) : October 6, 2009 Denver,
Colorado, USA / eds.: Sven Apel ... },
    publisher = { ACM },
    pages = { 109-116 },
    year = { 2009 },
    address = { New York, NY },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173256 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/100436 },
}

@inproceedings { BPK10,
    author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,
Stefan },
    title = { Variability and Evolution in Model-based Engineering of
Embedded Systems },
    booktitle = { Tagungsband / Dagstuhl-Workshop MBEES: Modellbasierte
Entwicklung eingebetteter Systeme VI : Model-Based Development of Embedded
Systems (MBEES 2010) ; 03.02.2010 – 05.02.2010 / Holger Giese ... [Hrsg.] },
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publisher = { fortiss },
pages = { 87-96 },
year = { 2010 },
address = { M{"u"}nchen },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-190301 },
cin = { 122810 / 120000 },
url = {
https://www.tu-braunschweig.de/Medien-DB/isf/mbees2010\_tagungsband.pdf },
}

@inproceedings { BPD+10,
  author = { Botterweck, G{"o"}tz and Pleuss, Andreas and Dhungana,
Deepak and Polzer, Andreas and Kowalewski, Stefan },
  title = { EvoFM: Feature-driven Planning of Product-line Evolution },
  booktitle = { PLEASE '10 : Proceedings of the 2010 ICSE Workshop on
Product Line Approaches in Software Engineering ; May, Cape Town, South
Africa },
  publisher = { ACM },
  pages = { 24-31 },
  year = { 2010 },
  address = { New York, NY },
  doi = { 10.1145/1808937.1808941 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196793 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/126457 },
}

@inproceedings { BPK09b,
  author = { Botterweck, G{"o"}tz and Polzer, Andreas and Kowalewski,
Stefan },
  title = { Using Higher-Order Transformations to Derive Variability
Mechanism for Embedded Systems },
  booktitle = { Models in software engineering : workshops and symposia
at MODELS 2009, Denver, CO, USA, October 4 - 9, 2009 ; reports and revised
selected papers / Sudipto Ghosh (ed.) },
  publisher = { Springer },
  pages = { 68-82 },
  series = { Lecture notes in computer science },
  year = { 2009 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-642-12261-3_8 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199034 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/129006 },
}

@techreport { BRT11,
  author = { Brauer, J{"o"}rg and Roveri, Marco and Tews, Hendrik },
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    title = { Proceedings of the 6th International Workshop on Systems
Software Verification (SSV 2011) },
    publisher = { TU },
    pages = { 101 S. },
    number = { TUD-FI11-02-August 2011 },
    year = { 2011 },
    address = { Dresden },
    typ = { PUB:(DE-HGF)26 },
    reportid = { RWTH-CONV-008161 },
    cin = { 122810 / 120000 },
    url = { https://es.fbk.eu/events/ssv2011/papers/proceedings.pdf },
}
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@inproceedings { BSR+09,
    author = { Brauer, J{"o}rg and Schlich, Bastian and Reinbacher, Thomas
and Kowalewski, Stefan },
    title = { Stack bounds analysis of microcontroller assembly code },
    booktitle = { Embedded Systems Week 2009 : CODES+ISSS'09, CASES'09,
EMSOFT'09 ; Proceedings of the 2009 international conference on Compilers,
architecture, and synthesis for embedded systems ; 2009, Grenoble, France,
October 11 - 16, 2009 },
    publisher = { ACM Press },
    year = { 2009 },
    address = { New York, NY },
    doi = { 10.1145/1631716.1631721 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173253 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/100433 },
}
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@inproceedings { BK10,
    author = { Brauer, J{"o}rg and King, Andy },
    title = { Automatic Abstraction for Intervals using Boolean Formulae },
    booktitle = { Static analysis : 17th international symposium, SAS 2010,
Perpignan, France, September 14-16, 2010 ; proceedings / Radhia Cousot;
Matthieu Martel (eds.) },
    publisher = { Springer },
    pages = { 167-183 },
    series = { Lecture notes in computer science },
    year = { 2010 },
    address = { Berlin [u.a.] },
    doi = { 10.1007/978-3-642-15769-1_11 },
    typ = { PUB:(DE-HGF)8 },
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    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/119140 },
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@inproceedings { BKK10,
    author = { Brauer, J{"o}rg and King, Andy and Kowalewski, Stefan },
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    title = { Range Analysis of Microcontroller Code using Bit-Level
Congruences },
    booktitle = { Formal methods for industrial critical systems : 15th
international workshop, FMICS 2010, Antwerp, Belgium, September 20 - 21,
2010 ; proceedings / Stefan Kowalewski; Marco Roveri (eds.) },
    publisher = { Springer },
    pages = { 82-98 },
    series = { Lecture notes in computer science },
    year = { 2010 },
    address = { Berlin [u.a.] },
    doi = { 10.1007/978-3-642-15898-8_6 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-190303 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/119141 },
}

@inproceedings { BNS10,
    author = { Brauer, J{"o}rg and Noll, Thomas and Schlich, Bastian },
    title = { Interval Analysis of Microcontroller Code using Abstract
Interpretation of Hardware and Software },
    booktitle = { SCOPES '10 Proceedings of the 13th International Workshop
on Software & Compilers for Embedded Systems : St. Goar, Germany - June
29-30, 2010 },
    publisher = { ACM },
    series = { ACM Digital Library },
    year = { 2010 },
    address = { New York, NY },
    doi = { 10.1145/1811212.1811216 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-191119 },
    cin = { 122810 / 121310 / 120000 },
    url = { http://publications.rwth-aachen.de/record/120063 },
}

@inproceedings { BS12,
    author = { Brauer, J{"o}rg and Simon, Axel },
    title = { Inferring Definite Counterexamples Through Under-
Approximation },
    booktitle = { NASA formal methods : 4th international symposium, NFM
2012, Norfolk, VA, USA, April 3 - 5, 2012 ; proceedings / Alwyn E. Goodloe;
Suzette Person (ed.) },
    publisher = { Springer },
    pages = { 54-69 },
    series = { Lecture Notes in Computer Science },
    year = { 2012 },
    address = { Berlin ; Heidelberg [u.a.] },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-194497 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/123648 },
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}

@inproceedings { BK11,
  author = { Brauer, J{"o}rg and King, Andy },
  title = { Approximate Quantifier Elimination for Propositional Boolean
Formulae },
  booktitle = { NASA formal methods : third international symposium, NFM
2011, Pasadena, CA, USA, April 18-20, 2011 ; proceedings / Mihaela Bobaru
... (eds.) },
  publisher = { Springer },
  pages = { 73-88 },
  series = { Lecture Notes in Computer Science },
  year = { 2011 },
  address = { Heidelberg [u.a.] },
  doi = { 10.1007/978-3-642-20398-5 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-194773 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/124043 },
}

@inproceedings { BKK11,
  author = { Brauer, J{"o}rg and King, Andy and Kriener, Jael },
  title = { Existential Quantification as Incremental SAT },
  booktitle = { Computer aided verification : 23rd international
conference, CAV 2011, Snowbird, UT, USA, July 14-20, 2011 ; proceedings /
Ganesh Gopalakrishnan; Shaz Qadeer (eds.) },
  publisher = { Springer },
  pages = { 191-207 },
  series = { Lecture notes in computer science },
  year = { 2011 },
  address = { Heidelberg [u.a.] },
  doi = { 10.1007/978-3-642-22110-1 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196588 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/126209 },
}

@inproceedings { BK11a,
  author = { Brauer, J{"o}rg and King, Andy },
  title = { Transfer Function Synthesis without Quantifier Elimination },
  booktitle = { Programming languages and systems : 20th European
Symposium on Programming, ESOP 2011, held as part of the Joint European
Conference on Theory and Practice of Software, ETAPS 2011, Saarbr{"u}cken,
Germany, March 26-April 3, 2011 ; proceedings / Gilles Barthe (ed.) },
  publisher = { Springer },
  pages = { 97-115 },
  series = { Lecture notes in computer science },
  year = { 2011 },
  address = { Heidelberg [u.a.] },
```

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doi = { 10.1007/978-3-642-19718-5 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-196794 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/126458 },
}

@inproceedings { BKK+10,
  author = { Brauer, J{"o}rg and Kamin, Volker and Kowalewski, Stefan
and Noll, Thomas },
  title = { Loop Refinement using Octagons and Satisfiability },
  booktitle = { SSV'10 : Proceedings of the 5th international conference
on Systems software verification },
  publisher = { ACM },
  pages = { 9 S. },
  year = { 2010 },
  address = { New York, NY },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196798 },
  cin = { 122810 / 121310 / 120000 },
  url = { http://dl.acm.org/citation.cfm?id=1929004&picked=prox },
}

@inproceedings { BHK+12,
  author = { Brauer, J{"o}rg and Hansen, Rene Rydhof and Kowalewski,
Stefan and Larsen, Kim G. and Olesen, Mads Chr. },
  title = { Adaptable Value-Set Analysis for Low-Level Code },
  booktitle = { 6th International Workshop on Systems Software
Verification (SSV 2011) [Elektronische Ressource] / Hrsg.: J{"o}rg Brauer ;
Marco Roveri ; Hendrik Tews },
  publisher = { Schloss Dagstuhl - Leibniz-Zentrum f{"u}r Informatik },
  pages = { 32-43 },
  series = { OASICS - OpenAccess Series in Informatics },
  year = { 2012 },
  address = { Wadern },
  doi = { 10.4230/OASICS.SSV.2011.32 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198838 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/128784 },
}

@article { BHS09,
  author = { Brauer, J{"o}rg and Huuck, Ralf and Schlich, Bastian },
  title = { Interprocedural pointer analysis in Goanna },
  journal = { Electronic notes in theoretical computer science : ENTCS },
  publisher = { Elsevier Science },
  pages = { 65-83 },
  volume = { 254 },
  year = { 2009 },
  address = { Amsterdam [u.a.] },
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    issn = { 1571-0661 },
    doi = { 10.1016/j.entcs.2009.09.060 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-013641 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/132532 },
}

@article { BSK12,
  author = { Brauer, J{"o}rg and Schlich, Bastian and Kowalewski, Stefan },
  title = { Parallel and distributed invariant checking of
microcontroller software },
  journal = { Electronic notes in theoretical computer science : ENTCS },
  publisher = { Elsevier Science },
  pages = { 45-63 },
  volume = { 287 },
  year = { 2012 },
  address = { Amsterdam [u.a.] },
  issn = { 1571-0661 },
  doi = { 10.1016/j.entcs.2009.09.059 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-013643 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/132534 },
}

@article { BK12a,
  author = { Brauer, J{"o}rg and King, Andy },
  title = { Transfer function synthesis without quantifier elimination },
  journal = { Logical methods in computer science : LMCS },
  publisher = { Department of Theoretical Computer Science, TU [u.a.] },
  volume = { 8 },
  number = { 3 },
  year = { 2012 },
  address = { Braunschweig },
  issn = { 1860-5974 },
  doi = { 10.2168/LMCS-8(3:17)2012 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-079893 },
  cin = { 120000 / 122810 },
  url = {
http://publications.rwth-aachen.de/record/218122/files/218122.pdf },
}

@techreport { BK13,
  author = { Brauer, J{"o}rg and Kowalewski, Stefan },
  title = { Automatic abstraction for bit vectors using decision
procedures },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  pages = { IV, 207 S. : graph. Darst. },
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    volume = { 2013,14 },
    number = { AIB 2013 14 },
    series = { Aachener Informatik-Berichte },
    year = { 2013 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-010470 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/229199/files/4836.pdf
},
}

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@article { BKK13,
  author = { Brauer, J{"o}rg and King, Andy and Kowalewski, Stefan },
  title = { Abstract interpretation of microcontroller code: Intervals
meet congruences },
  journal = { Science of computer programming },
  publisher = { Elsevier },
  pages = { 862-883 },
  volume = { 78 },
  number = { 7 },
  year = { 2013 },
  address = { Amsterdam [u.a.] },
  issn = { 0167-6423 },
  doi = { 10.1016/j.scico.2012.06.001 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-086725 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/238031 },
}

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@article { BHK+15,
  author = { Brendle, Christian and Hackmack, Kay-Florian and K{"u}hn,
Jan and Wardeh, Markus Nabil and Kopp, R{"u}dger and Rossaint, Rolf and
Stollenwerk, Andr  and Kowalewski, Stefan and Misgeld, Berno and Leonhardt,
Steffen and Walter, Marian },
  title = { In silico evaluation of gas transfer estimation during
extracorporeal membrane oxygenation },
  journal = { IFAC-PapersOnLine },
  publisher = { Elsevier },
  volume = { 48 },
  number = { 20 },
  year = { 2015 },
  address = { Laxenburg },
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  organization = { 9th IFAC Symposium on Biological and Medical Systems,
Berlin (Germany), 2015-08-31 - 2015-09-02 },
  doi = { 10.1016/j.ifacol.2015.10.190 },
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@article { BHK+17,
author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan and
Wardeh, M. N. and Janisch, T. and Kopp, R{"u}dger and Rossaint, Rolf and
Stollenwerk, André and Kowalewski, Stefan and Leonhardt, Steffen and Walter,
Marian and Misgeld, Berno Johannes Engelbert },
title = { Closed-loop control of extracorporeal oxygen and carbon
dioxide gas transfer },
journal = { Control engineering practice },
publisher = { Elsevier Science },
pages = { 173-182 },
volume = { 59 },
year = { 2017 },
address = { Amsterdam [u.a.] },
issn = { 0967-0661 },
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@article { BHK+16,
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Stollenwerk, André and Kowalewski, Stefan and Misgeld, Berno Johannes
Engelbert and Leonhardt, Steffen and Walter, Marian },
title = { Continuous gas transfer monitoring during extracorporeal
membrane oxygenation },
journal = { Biomedical signal processing and control },
publisher = { Elsevier },
pages = { 321-330 },
volume = { 31 },
year = { 2016 },
address = { Amsterdam [u.a.] },
issn = { 1746-8094 },
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typ = { PUB:(DE-HGF)16 },
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@article { BMK+17,  
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Stollenwerk, Andr  and Kowalewski, Stefan and Misgeld, Berno Johannes  
Engelbert and Leonhardt, Steffen and Walter, Marian },  
  title = { Physiological closed-loop control of mechanical ventilation  
and extracorporeal membrane oxygenation },  
  journal = { Biomedizinische Technik },  
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@inproceedings { BBS+11a,  
  author = { Brendle, Christian and Bensberg, Ralf and Stollenwerk, Andre  
and Arens, Jutta and Walter, Marian },  
  title = { Patient Orientated Automation of the Therapy with the  
Extracorporeal Membrane Oxygenation (ECMO) },  
  booktitle = { 45. Jahrestagung der Deutschen Gesellschaft f{"u}r  
Biomedizinische Technik },  
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@inproceedings { BBG+20,  
  author = { Buchsbaum, Melanie Sarah Katharina and Brecher, C. and  
Grochowski, M. and Kowalewski, Stefan },  
  title = { Identifikation von Informationen zur Beschreibung der  
Systemgrenzen eines sicheren, cyber-physischen Automatisierungssystems },  
  booktitle = { Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen  
: EKA 2020 : 05.-06. Mai 2020 : 16. Fachtagung mit Workshop, Magdeburg },  
  publisher = { Otto-von-Guericke-Universit{"a"}t Magdeburg;  
Universitaetsbibliothek },  
  pages = { 10 p. },  
  year = { 2020 },  
  address = { Magdeburg },  
  organization = { Beschreibungsmittel, Methoden, Werkzeuge und  
Anwendungen : EKA 2020, Magdeburg (Germany), 2020-05-05 - 2020-05-06 },
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    typ = { PUB:(DE-HGF)7 },
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@article { BBF+20,
  author = { Buglowski, Mateusz and Bleilevens, Christian and Fabry,
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  title = { Flussgesteuerte pH-Regulierung in einem automatisierten
Nierenperfusionssystem },
  publisher = { Infinite Science },
  volume = { 1 },
  number = { 1 },
  year = { 2020 },
  address = { L{"u}beck },
  organization = { Automation in Medical Engineering, L{"u}beck
(Germany), 2020-03-02 - 2020-03-03 },
  doi = { 10.18154/RWTH-2020-02624 },
  typ = { PUB:(DE-HGF)16 },
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  illkey = { BMBF-031L0134B - Alternativmethoden - Verbund: AutoMock -
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{"u}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{"a}tstestung von Membranoxygenatoren und zur
Transplantationssimulation (BMBF-031L0134B) },
}

@techreport { CBD+10,
  author = { Chávez Grunewald, Martin Guillermo and Ben Makhlouf,
Ibtissem and Diab, Hilal and Abel, Dirk and Kowalewski, Stefan },
  title = { On the Effects of Network Delays on an Energy-based
Controller },
  booktitle = { NecSys'10 : 2nd IFAC Workshop on Distributed Estimation
and Control in Networked Systems ; 13-14 September, 2010, Centre de Congrès
de L'Impérial Palace, Annecy, France },
  pages = { 169-174 },
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@inproceedings { CBD+10a,
  author = { Chávez Grunewald, Martin Guillermo and Ben Makhlouf,
Ibtissem and Diab, Hilal and Mut, Vicente and Kowalewski, Stefan and Abel,
Dirk },
  title = { Regelung und Sicherheitsanalyse einer Gruppe
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Massenpunktfahrzeuge mit Hilfe energiebasierter Methoden },
  booktitle = { Automatisierungstechnik : at },
  publisher = { Oldenbourg },
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  volume = { 58 },
  number = { 4 },
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  address = { M{"u"}nchen },
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@inbook { CSK+07,
  author = { Chen, Xi and Salewski, Falk and Kowalewski, Stefan and
Spisic, Kresimir },
  title = { Concept and prototyping of a fault management framework for
automotivesafety relevant systems },
  booktitle = { Moderne Elektronik im Kraftfahrzeug II : Systeme von
morgen - technische Innovationen und Entwicklungstrends ; und 19 Tabellen /
Hrsg.: Bernard B{"a"}ker },
  publisher = { expert Verl. },
  volume = { 82 },
  series = { Haus der Technik - Fachbuchreihe },
  year = { 2007 },
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@inbook { CSB+15,
  author = { Chen, Xin and Schupp, Stefan and Ben Makhoulf, Ibtissem and
Ábrahám, Erika and Frehse, Goran and Kowalewski, Stefan },
  title = { A Benchmark Suite for Hybrid Systems Reachability Analysis },
  booktitle = { NASA Formal Methods ; 7th International Symposium, NFM
2015, Pasadena, Calif., USA, April 27-29, 2015, Proceedings / edited by
Klaus Havelund, Gerard Holzmann, Rajeev Joshi },
  publisher = { Springer },
  pages = { 408-414 },
  volume = { 9058 },
  series = { Lecture Notes in Computer Science },
  year = { 2015 },
  address = { Cham },
  organization = { 7th International Symposium Formal Methods, Pasadena,
Calif. (Germany), 2015-04-27 - 2015-04-29 },
  doi = { 10.1007/978-3-319-17524-9_29 },
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    typ = { PUB:(DE-HGF)7 },
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@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 },
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http://publications.rwth-aachen.de/record/752264/files/752264.pdf },
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@inproceedings { CMW+17,
    author = { Chomicz, Paul and M{"u"}ller-Lerwe, Armin and Wegner,
G{"o"}tz-Philipp and Busch, Rainer and Kowalewski, Stefan },
    title = { Towards the Use of Controlled Natural Languages in Hazard
Analysis and Risk Assessment },
    booktitle = { Automotive - Safety & Security 2017 : Sicherheit und
Zuverl{"a"}ssigkeit f{"u"}r automobile Informationstechnik : 30.-31. Mai
2017 Stuttgart, Germany / Peter Dencker, Herbert Klenk, Hubert B. Keller,
Erhard Pl{"o"}dereder (Hrsg.) },
    publisher = { Gesellschaft f{"u"}r Informatik e.V. (GI) },
    pages = { 163-174 },
    series = { GI-Edition : lecture notes in informatics. Proceedings },
    year = { 2017 },
    address = { Bonn },
    organization = { Automotive - Safety & Security 2017 : Sicherheit und
Zuverl{"a"}ssigkeit f{"u"}r automobile Informationstechnik, Stuttgart
(Germany), 2017-05-30 - 2017-05-31 },
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G{"o"}tz-Philipp and Busch, Rainer and Kowalewski, Stefan },
  title = { Controlled Natural Languages for HazardAnalysis and Risk
Assessment },
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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
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Language, Maynooth, Co. Kildare (Ireland), 2018-08-27 - 2018-08-28 },
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http://publications.rwth-aachen.de/record/774780/files/774780.pdf },
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@inproceedings { DDK+17,
  author = { Dankert, Jens and Dernehl, Christian and Kusmenko, Evgeny
and Eckstein, Lutz and Kowalewski, Stefan and Rumpe, Bernhard },
  title = { RapidCoop - Robuste Architektur durch geeignete Paradigmen
f{"u"}r Kooperativ Interagierende Automobile },
  booktitle = { AAET - Automatisiertes und Vernetztes Fahren :
Beitr{"a"}ge zum gleichnamigen 18. Braunschweiger Symposium vom 8. und 9.
Februar 2017, Stadthalle, Braunschweig / ITS automotive nord e.V. (Hrsg.) },
  publisher = { ITS automotive nord e.V. },
  pages = { 225-244 },
  year = { 2017 },
  address = { Braunschweig },
  organization = { 18. Braunschweiger Symposium AAET - Automatisiertes
und Vernetztes Fahren, Braunschweig (Germany), 2017-02-08 - 2017-02-09 },
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http://www.se-rwth.de/publications/RapidCoop-Robuste-Architektur-durch-geeig
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@article { dMK+15,  
  author = { de Brouwer, P. and Mager, Ilona and Kopp, R{"u}dger and  
Walter, Marian and Stollenwerk, Andr  and Schmitz-Rode, Thomas and  
Steinseifer, Ulrich and Arens, Jutta },  
  title = { Dynamische Studie zum Einfluss von negativem Druck auf  
H{"a}molyse },  
  journal = { Kardiotechnik },  
  publisher = { Deutsche Ges. f{"u}r Kardiotechnik },  
  pages = { 3-6 },  
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@inproceedings { DFD+11,  
  author = { Dernehl, Christian and Franke, Dominik and Diab, Hilal and  
Kowalewski, Stefan },  
  title = { An Architecture with Integrated Image Processing for  
Autonomous Micro Aerial Vehicles },  
  booktitle = { International Micro Air Vehicle conference and  
competitions 2011 (IMAV 2011), 't Harde, The Netherlands, September 12-15,  
2011 },  
  publisher = { IMAV },  
  pages = { 138-145 },  
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@inbook { DHG+15,  
  author = { Dernehl, Christian and Hansen, Norman and Gerlitz, Thomas  
and Kowalewski, Stefan },  
  title = { Static Value Range Analysis for Matlab/Simulink-Models },  
  booktitle = { Informatik 2015 : Tagung vom 28. September – 02. Oktober  
2015 in Cottbus / Douglas W. Cunningham ... (Hrsg.) },  
  publisher = { Ges. f{"u}r Informatik },  
  pages = { 1649-1660 },  
  volume = { 246 },  
  series = { GI-Edition : lecture notes in informatics },  
  year = { 2015 },  
  address = { [Bonn] },  
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Cottbus (Germany), 2015-09-28 - 2015-10-02 },
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@inproceedings { DHK16,
  author = { Dernehl, Christian and Hansen, Norman and Kowalewski, Stefan },
  title = { Abstract Interpretation of MATLAB Code with Interval Sets },
  booktitle = { Critical systems: formal methods and automated
verification : Joint 21st International Workshop on Formal Methods for
Industrial Critical Systems and 16th International Workshop on Automated
Verification of Critical Systems, FMICS-AVoCS 2016, Pisa, Italy, September
26-28, 2016 : proceedings / Maurice H. ter Beek, Stefania Gnesi, Alexander
Knapp (eds.) },
  publisher = { Springer International Publishing },
  pages = { 25-38 },
  series = { Lecture Notes in Computer Science },
  year = { 2016 },
  address = { Cham },
  organization = { 21st International Workshop on Formal Methods for
Industrial Critical Systems, Pisa (Italy), 2016-09-26 - 2016-09-28 },
  doi = { 10.1007/978-3-319-45943-1 },
  typ = { PUB:(DE-HGF)7 },
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@inproceedings { DHK16a,
  author = { Dernehl, Christian and Hansen, Norman and Kowalewski, Stefan },
  title = { Combining Abstract Interpretation with Symbolic Execution for
a Static Value Range Analysis of Block Diagrams },
  booktitle = { Software engineering and formal methods : 14th
international conference, SEFM 2016, held as part of STAF 2016, Vienna,
Austria, July 4-8, 2016 : proceedings / Rocco De Nicola, Eva K{"u}hn (eds.) },
  publisher = { Springer International Publishing },
  pages = { 137-154 },
  series = { Lecture Notes in Computer Science },
  year = { 2016 },
  address = { Cham },
  organization = { Software Engineering and Formal Methods : 14th
International Conference, Vienna (Austria), 2016-07-04 - 2016-07-08 },
  doi = { 10.1007/978-3-319-41591-8 },
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url = { http://publications.rwth-aachen.de/record/680854 },
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@inproceedings { DKK16,
  author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski, Stefan },
  title = { Abstract Interpretation for Block Diagrams : Two Case Studies },
  booktitle = { MoDeVva 2016 : Model-Driven Engineering, Verification and Validation : proceedings of the 13th Workshop on Model-Driven Engineering, Verification and Validation co-located with ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems (MODELS 2016) : Saint-Malo, France, October 3, 2016 / edited by Michalis Famelis, Daniel Ratiu, Gehan M. K. Selim },
  publisher = { RWTH Aachen },
  pages = { 20-29 },
  series = { CEUR workshop proceedings },
  year = { 2016 },
  address = { Aachen, Germany },
  organization = { 13th Workshop on Model Design, Verification and Validation, Saint-Malo (France), 2016-10-03 - 2016-10-03 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-00640 },
  cin = { 122810 / 120000 },
  url = { http://ceur-ws.org/Vol-1713/MoDeVva_2016_paper_3.pdf },
}

@inproceedings { Der16,
  author = { Dernehl, Christian },
  title = { Automatic invariant checking for discrete block diagrams using Lyapunov functions with sat modulo theory solvers },
  booktitle = { 2016 European Control Conference (ECC) : June 29-July 1, 2016, Aalborg, Denmark / [European Control Association (EUCA)] },
  publisher = { IEEE },
  pages = { 441-446 },
  year = { 2016 },
  address = { [Piscataway, NJ] },
  organization = { 2016 European Control Conference, Aalborg (Denmark), 2016-06-29 - 2016-07-01 },
  doi = { 10.1109/ECC.2016.7810324 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-06691 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/696194 },
}

@article { DKK17,
  author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski, Stefan },
  title = { Case studies on automated verification with slope boundaries for block diagrams },
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    journal = { Computer Languages, Systems & Structures },
    publisher = { Elsevier Science },
    pages = { 528-543 },
    volume = { 54 },
    year = { 2017 },
    address = { Amsterdam [u.a.] },
    issn = { 1477-8424 },
    doi = { 10.1016/j.cl.2017.09.001 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-236294 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752271 },
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@phdthesis { Der19,
    author = { Dernehl, Christian Michael },
    othercontributors = { Kowalewski, Stefan and Moormann, Dieter },
    title = { Verification of embedded software models by combining
abstract interpretation, symbolic execution and stability analysis },
    publisher = { RWTH Aachen University, Department of Computer Science },
    school = { RWTH Aachen University },
    pages = { 1 Online-Ressource (xxiii, 156 Seiten) : Illustrationen,
Diagramme },
    series = { Aachener Informatik-Berichte },
    year = { 2019 },
    address = { Aachen },
    doi = { 10.18154/RWTH-2019-05178 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2019-05178 },
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http://publications.rwth-aachen.de/record/761850/files/761850.pdf },
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@inproceedings { DBK+09,
    author = { Diab, Hilal and Ben Makhlouf, Ibtissem and Kowalewski,
Stefan and Chávez, Martin and Abel, Dirk },
    title = { Control and Safety Analysis of a Platoon under Communication
Constraints },
    booktitle = { NE\{S/T\}COC, Sept. 28/29, Stuttgart, Priority Program
1305 Posters S.5 },
    pages = { 70-71 },
    year = { 2009 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173123 },
    cin = { 416610 / 122810 },
    url = { http://publications.rwth-aachen.de/record/100238 },
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@inproceedings { DCB+10,
    author = { Diab, Hilal and Chávez Grunewald, Martin Guillermo and Ben

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Makhlouf, Ibtissem and Abel, Dirk and Kowalewski, Stefan },
  title = { A testing platform for cooperative vehicle platoon
controllers },
  booktitle = { 13th International IEEE Conference on Intelligent
Transportation Systems : ITSC 2010 ; 19 - 22 September, 2010, Madeira
Island, Portugal ; conference proceedings / IEEE },
  publisher = { IEEE },
  pages = { 1718-1723 },
  year = { 2010 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ITSC.2010.5625258 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-189667 },
  cin = { 122810 / 416610 / 120000 },
  url = { http://publications.rwth-aachen.de/record/118439 },
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@inproceedings { DBK12,
  author = { Diab, Hilal and Ben Makhlouf, Ibtissem and Kowalewski,
Stefan },
  title = { A Platoon of Vehicles Approaching an Intersection: A Testing
Platform for Safe Intersections },
  booktitle = { 2012 15th International IEEE Conference on Intelligent
Transportation Systems (ITSC) : 16 - 19 Sept. 2012, Anchorage, Alaska, USA
},
  publisher = { IEEE },
  pages = { 1918-1923 },
  year = { 2012 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ITSC.2012.6338822 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199932 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/197725 },
}

@phdthesis { Dia15,
  author = { Diab, Hilal },
  othercontributors = { Kowalewski, Stefan and Abel, Dirk },
  title = { Experimental validation and mathematical analysis of
cooperative vehicles in a platoon },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  school = { RWTH Aachen University },
  pages = { X, 131 S. : Ill., graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2015 },
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  typ = { PUB:(DE-HGF)29 },
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http://publications.rwth-aachen.de/record/465272/files/465272_source.zip },
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@inproceedings { DHH+08,
  author = { Drews, Peter and Hesseler, Frank and Hoffmann, Kai and Abel,
  Dirk and Schmitz, Dominik and Polzer, Andreas and Kowalewski, Stefan },
  title = { Entwicklung einer Luftpfadregelung am Dieselmotor unter
  Ber{"u"}cksichtigung nichtfunktionaler Anforderungen },
  booktitle = { Steuerung und Regelung von Fahrzeugen und Motoren :
  AUTOREG 2008 ; 4. Fachtagung Baden-Baden, 12. und 13. Februar 2008 /
  VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik },
  publisher = { VDI-Verl. },
  pages = { 91-102 },
  series = { VDI-Berichte },
  year = { 2008 },
  address = { D{"u"}sseldorf },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-170548 },
  cin = { 122810 / 416610 / 120000 },
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@inproceedings { DHS+08,
  author = { Drews, Peter and He{"ss"}eler, Frank-Josef and Schmitz,
  Dominik and Polzer, Andreas and Kowalewski, Stefan and Abel, Dirk },
  title = { Entwicklungsprozess f{"u"}r eine Luftpfadregelung am
  Dieselmotor unter Ber{"u"}cksichtigung nichtfunktionaler Anforderungen },
  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 M{"u"}nchen
  (i.e. Dresden!)] / Bernard B{"a"}ker (Hrsg.) u. 46 Mitautoren },
  publisher = { Expert-Verl. },
  pages = { 167-179 },
  series = { Haus der Technik Fachbuch },
  year = { 2008 },
  address = { Renningen },
  typ = { PUB:(DE-HGF)8 },
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  cin = { 122810 / 416610 / 120000 },
  url = { http://publications.rwth-aachen.de/record/97365 },
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@inproceedings { DSK09,
  author = { Duelks, Ramona and Salewski, Falk and Kowalewski, Stefan },
  title = { A real-time test and simulation environment based on standard
  FPGA hardware },
  booktitle = { Proceedings / 2009 Testing: Academic and Industrial
  Conference Practice and Research Techniques : TAIC PART 2009 ; 4-6 September
  2009 Cumberland Lodge, Windsor, United Kingdom },
  publisher = { IEEE Computer Society },
  pages = { 197-204 },
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    year = { 2009 },
    address = { Los Alamitos, Calif },
    doi = { 10.1109/TAICPART.2009.24 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-197239 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/126992 },
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@inbook { DF13,
    author = { Dzafic, Dzenan and Franke, Dominik },
    title = { Entwicklung und Evaluation eines Navigationssystems f{"u}r
Elektrorollst{"u}hle },
    booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
fachwissenschaftlicher Informatik-Kongress 22. und 23. M{"a}rz 2013 B-IT
Bonn-Aachen International Center for Information Technology, Bonn /
Gesellschaft f{"u}r Informatik (Hrsg.). [Red.: Ludger Porada] },
    publisher = { Gesellschaft f{"u}r Informatik e.V. },
    pages = { 185-188 },
    volume = { 12 },
    series = { GI-Edition : lecture notes in informatics },
    year = { 2013 },
    address = { Bonn },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-203657 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/226146 },
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@inbook { DF14,
    author = { Dzafic, Dzenan and Franke, Dominik },
    title = { Integration von Informationen {"u}ber die
Bodenbeschaffenheit in das eNav-System : [Zusammenfassung der ] Masterarbeit
},
    booktitle = { Informatiktage 2014 / Fachwissenschaftlicher Informatik-
Kongress, 27. und 28. M{"a}rz 2014, Hasso-Plattner-Institut der
Universit{"a}t Potsdam ... },
    publisher = { Ges. f{"u}r Informatik },
    pages = { 123-126 },
    volume = { S-13 },
    series = { GI-Edition : lecture notes in informatics / Seminars },
    year = { 2014 },
    address = { Bonn },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-204904 },
    cin = { 120000 / 122810 },
    url = { http://publications.embedded.rwth-aachen.de/file/59 },
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@inproceedings { DFB+13,
    author = { Dzafic, Dzenan and Franke, Dominik and Baumeister, Danni and
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Kowalewski, Stefan },
  title = { Modifikation des A*-Algorithmus f{"u}r energieeffizientes
3D-Routing },
  booktitle = { Angewandte Geoinformatik 2013 : Beitr{"a}ge zum 25.
AGIT-Symposium Salzburg / Strobl ; Blaschke ; Griesebner ; Zagel (Hrsg.) },
  publisher = { Wichmann },
  pages = { 414-423 },
  year = { 2013 },
  address = { Berlin ; Offenbach },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-205272 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/228156 },
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@inproceedings { DFB+14,
  author = { Dzafic, Dzenan and Franke, Dominik and Baumeister, Danni and
Kowalewski, Stefan },
  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 (Hrsg.) },
  publisher = { Wichmann },
  pages = { 451-460 },
  year = { 2014 },
  address = { Berlin [u.a.] },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-205745 },
  cin = { 120000 / 122810 },
  url = { http://publications.embedded.rwth-aachen.de/file/5c },
}

@inproceedings { DBB+14,
  author = { Dzafic, Dzenan and Bitsch, J{\'o} {\'A}gila and Baumeister, Danni
and Kowalewski, Stefan and Wehrle, Klaus },
  title = { Towards an Indoor Traffic Report - Requirements for Dynamic
Route Planning for Wheelchair Users },
  booktitle = { International Conference on Indoor Positioning and Indoor
Navigation (IPIN), 2012 : 13 - 15 Nov. 2012, Sydney, Australia ; conference
proceedings / organized by UNSW Australia, the University of New South
Wales, Australia. Ed. by Chris Rizos ... },
  publisher = { IEEE },
  year = { 2014 },
  address = { Piscataway, NJ },
  organization = { Fifth International Conference on Indoor Positioning
and Indoor Navigation, Busan (South Korea), 2014-10-27 - 2014-10-30 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2015-00727 },
  cin = { 122810 / 121710 / 120000 },
  url = { http://publications.rwth-aachen.de/record/462817 },
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@inproceedings { DKS+16,  
  author = { Dzafic, Dzenan and Klein-Ridder, Daniel and Schoonbrood,  
Pierre and Franke, Dominik and Kowalewski, Stefan },  
  title = { Der Bodenbelag-Detektor des eNav-Systems },  
  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber: Prof.  
Dr. Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr.  
Thomas Blaschke },  
  publisher = { Wichmann, eine Marke der VDE Verlag GmbH },  
  pages = { 318-327 },  
  series = { AGIT : Journal f{"u"}r Angewandte Geoinformatik },  
  year = { 2016 },  
  address = { Berlin },  
  organization = { 28. AGIT-Symposium, Salzburg (Austria), 2016-07-06 -  
2016-07-08 },  
  typ = { PUB:(DE-HGF)7 },  
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  url = { http://publications.rwth-aachen.de/record/680869 },  
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@inproceedings { DLS+16,  
  author = { Dzafic, Dzenan and Lahr, Florian and Schoonbrood, Pierre and  
Franke, Dominik and Kowalewski, Stefan },  
  title = { Das Barrierenerkennungssystem von eNav },  
  booktitle = { agit_2016 - open:spatial:interfaces / Herausgeber: Prof.  
Dr. Josef Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr.  
Thomas Blaschke },  
  publisher = { Wichmann, eine Marke der VDE Verlag GmbH },  
  pages = { 298-307 },  
  series = { AGIT : Journal f{"u"}r Angewandte Geoinformatik },  
  year = { 2016 },  
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2016-07-08 },  
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@inproceedings { DKF+15,  
  author = { Dzafic, Dzenan and Klug, Stefan and Franke, Dominik and  
Kowalewski, Stefan },  
  title = { Routing {"u"}ber Fl{"a"}chen mit SpiderWebGraph },  
  booktitle = { Journal f{"u"}r angewandte Geoinformatik 1-2015 },  
  pages = { 516-252 },  
  year = { 2015 },  
  organization = { Journal f{"u"}r angewandte Geoinformatik 1-2015 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-2017-00133 },  
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url = { http://publications.rwth-aachen.de/record/681324 },
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@inproceedings { DSF+17,
  author = { Dzafic, Dzenan and Schoonbrood, Pierre and Franke, Dominik
and Kowalewski, Stefan },
  title = { eNav: A Suitable Navigation System for the Disabled },
  booktitle = { Ambient Assisted Living : 9. AAL-Kongress, Frankfurt/M,
Germany, April 20 - 21, 2016 / edited by Reiner Wichert, Beate Mand },
  publisher = { Springer International Publishing ; Imprint: Springer },
  pages = { 133-150 },
  series = { Advanced Technologies and Societal Change },
  year = { 2017 },
  address = { Cham ; s.l. },
  organization = { 9th Congress on Ambient Assisted Living, Frankfurt/M
(Germany), 2016-04-20 - 2016-04-21 },
  doi = { 10.1007/978-3-319-52322-4_9 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2018-222675 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/720210 },
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@inproceedings { DWS+17,
  author = { Dzafic, Dzenan and Wagener, Nicolas and Schoonbrood, Peter
and Franke, Dominik and Kowalewski, Stefan },
  title = { Multimodales Dynamisches Routen mit eNav },
  booktitle = { agit_2017 geospatialonline / Herausgeber: Prof. Dr. Josef
Strobl, Dr. Bernhard Zagel, Mag. Gerald Griesebner, Prof. Dr. Thomas
Blaschke },
  publisher = { Wichmann },
  pages = { 278-287 },
  series = { AGIT : Journal f{"u"}r angewandte Geoinformatik },
  year = { 2017 },
  address = { Berlin ; Offenbach },
  organization = { 29. Symposium f{"u"}r Angewandte Geoinformatik,
Salzburg (Austria), 2017-07-05 - 2017-07-07 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236300 },
  cin = { 122810 / 120000 / 414110 },
  url = { http://publications.rwth-aachen.de/record/752276 },
}

@inproceedings { DWS+17a,
  author = { Dzafic, Dzenan and Wagener, Nicolas and Schoonbrood, Peter
and Franke, Dominik and Kowalewski, Stefan },
  title = { Multimodal Dynamic Routing for Wheelchairs and Pedestrians },
  booktitle = { Proceedings International Conference on Intelligent
Transport Systems in Theory and Practice, mobil.TUM 2017 },
  publisher = { Elsevier B.V. },
  pages = { 1-10 },
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    year = { 2017 },
    organization = { International Conference on Intelligent Transport
Systems in Theory and Practice, M{"u"}nchen (Germany), 2017-07-04 -
2017-07-05 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-236301 },
    cin = { 122810 / 120000 / 414110 },
    url = { http://publications.rwth-aachen.de/record/752277 },
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EBK11,
    author = { Engelmann, Francis and Borchers, Jan Oliver and Kowalewski,
Stefan },
    title = { FabScan - Affordable 3D Laser Scanning of Physical Objects },
    pages = { XXI, 67 Seiten : Illustrationen, grafische Darstellungen },
    year = { 2011 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)2 },
    reportid = { RWTH-2016-10665 },
    cin = { 122710 / 120000 / 122810 },
    url = {
http://hci.rwth-aachen.de/materials/publications/engelmann2011a.pdf },
}

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@article { FDG+19,
    author = { Fabry, Gregor and Doorschodt, Benedict M. and Grzanna, Tim
and Boor, Peter and Elliott, Aaron and Stollenwerk, André and Tolba, René H.
and Rossaint, Rolf and Bleilevens, Christian },
    title = { Cold Preflush of Porcine Kidney Grafts Prior to Normothermic
Machine Perfusion Aggravates Ischemia Reperfusion Injury },
    journal = { Scientific reports },
    publisher = { Macmillan Publishers Limited, part of Springer Nature },
    pages = { 9 Seiten },
    volume = { 9 },
    year = { 2019 },
    address = { [London] },
    issn = { 2045-2322 },
    doi = { 10.18154/RWTH-2019-08778 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-2019-08778 },
    cin = { 122810 / 120000531020-3533000-3533000-2533540-2 / 9770208 /
9790209527000-2 },
    url = {
http://publications.rwth-aachen.de/record/767376/files/767376.pdf },
    illkey = { BMBF-031L0134B - Alternativmethoden - Verbund: AutoMock -
Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{"u"}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{"a"}tstestung von Membranoxygenatoren und zur
Transplantationssimulation (BMBF-031L0134B) },
}

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@inbook { FHS+09,  
  author = { Fehnker, Ansgar and Huuck, Ralf and Schlich, Bastian and  
Tapp, Michael },  
  title = { Automatic bug detection in microcontroller software by static  
program analysis },  
  booktitle = { SOFSEM 2009: theory and practice of computer science :  
35th Conference on Current Trends in Theory and Practice of Computer  
Science, Špindlerův Mlýn, Czech Republic, January 24 - 30, 2009 ;  
proceedings / Mogens Nielsen ... (eds.) },  
  publisher = { Springer },  
  pages = { 267-278 },  
  volume = { 5404 },  
  series = { Lecture notes in computer science },  
  year = { 2009 },  
  address = { Berlin [u.a.] },  
  doi = { 10.1007/978-3-540-95891-8_26 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-CONV-095395 },  
  cin = { 122810 / 120000 },  
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@inproceedings { For13,  
  author = { F{"o}rster, Marc },  
  title = { Conditional software specification & assurance : A practical  
assessment of contract-based approaches },  
  publisher = { IEEE },  
  pages = { 36-36 },  
  year = { 2013 },  
  address = { Piscataway, NJ },  
  doi = { 10.1109/ISSREW.2013.6688860 },  
  typ = { PUB:(DE-HGF)8 },  
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  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/225271 },  
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@inproceedings { For14,  
  author = { F{"o}rster, Marc },  
  title = { Evaluating Embedded-Software Specifications -- Quantitative  
and Structured Assessment of Declarative Interface Descriptions },  
  booktitle = { IEEE International Symposium on Software Reliability  
Engineering workshops (ISSREW), 2014 : 3 - 6 Nov. 2014, Naples, Italy ;  
proceedings },  
  publisher = { IEEE },  
  pages = { 142-143 },  
  year = { 2014 },  
  address = { Piscataway, NJ },  
  organization = { 2014 IEEE International Symposium on Software  
Reliability Engineering Workshops, Naples (Italy), 2014-11-03 - 2014-11-06  
},
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doi = { 10.1109/ISSREW.2014.74 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2015-00716 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/462802 },
}

@techreport { FAK+14,
  author = { F{"o"}rster, Marc and Auerswald, Marko and Keldenich,
Phillip and Kowalewski, Stefan },
  title = { Semantic interfaces for automotive software components:
exemplary development & validation of a practical specification language },
  pages = { 1-100 },
  year = { 2014 },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-CONV-236315 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752291 },
}

@techreport { For12,
  author = { F{"o"}rster, Marc },
  title = { Dependable reuse & guarded integration of automotive software
components - approaches to conditional specification & assurance },
  pages = { 1-78 },
  year = { 2012 },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-CONV-236319 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752295 },
}

@inproceedings { FK10,
  author = { Franke, Dominik and Kowalewski, Stefan },
  title = { Verifikation der Java-Echtzeitf{"a"}higkeit f{"u"}r den
Einsatz in zeitkritischen Systemen },
  booktitle = { Informatiktage 2010 : Fachwissenschaftlicher Informatik-
Kongress, 19. und 20. M{"a"}rz 2010, B-IT Bonn-Aachen International Center
for Information Technolgy in Bonn / Gesellschaft f{"u"}r Informatik (Hrsg.).
[Red.: Ludger Porada] },
  publisher = { Ges. f{"u"}r Informatik e.V. (GI) },
  pages = { 165-168 },
  series = { GI-Edition : Seminars },
  year = { 2010 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-173257 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/100437 },
}
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@inproceedings { FEK12,  
  author = { Franke, Dominik and Elsemann, Corinna and Kowalewski, Stefan  
},  
  title = { Reverse Engineering and Testing Service Life Cycles of Mobile  
Platforms },  
  booktitle = { 2nd DEXA Workshop on Information Systems for Situation  
Awareness and Situation Management (ISSASiM) : 3. - 7. September, Wien },  
  publisher = { IEEE Computer Society },  
  pages = { 16-20 },  
  year = { 2012 },  
  doi = { 10.1109/DEXA.2012.40 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-182860 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/110850 },  
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@inproceedings { FDW+11,  
  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten and  
Kowalewski, Stefan },  
  title = { Entwicklung eines mobilen Navigationssystems f{"u}r  
Elektrofahrzeuge auf Basis von OpenStreetMap-Daten },  
  booktitle = { Anwenderkonferenz f{"u}r Freie und Open Source Software  
f{"u}r Geoinformationssysteme : FOSSGIS 2011 ; Heidelberg, 5. - 7. April,  
2011 },  
  pages = { 92-99 },  
  year = { 2011 },  
  address = { Heidelberg },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-194738 },  
  cin = { 122810 / 120000 },  
  url = {  
http://www.mapmedia.de/jthomsen/FOSSGIS\_Tagungsband/2011\_FOSSGIS\_Tagungsband  
.pdf },  
}
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@inproceedings { FW11,  
  author = { Franke, Dominik and Weise, Carsten },  
  title = { Providing a Software Quality Framework for Testing of Mobile  
Applications },  
  booktitle = { Proceedings / Fourth IEEE International Conference on  
Software Testing, Verification, and Validation ; Berlin, Germany, 21-25  
March 2011 / Spons. by IEEE Computer Society. Ed. by Lisa O'Conner },  
  publisher = { IEEE },  
  pages = { 431-434 },  
  year = { 2011 },  
  address = { Piscataway, NJ },  
  doi = { 10.1109/ICST.2011.18 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-196799 },  
  cin = { 122810 / 120000 },  
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url = { http://publications.rwth-aachen.de/record/126463 },
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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] },
  publisher = { IEEE },
  pages = { 241-250 },
  year = { 2012 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ICST.2012.104 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198895 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/128852 },
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@inproceedings { FTK12,
  author = { Franke, Dominik and Tobias, Royé and Kowalewski, Stefan },
  title = { AndroLIFT: A Tool for Android Application Life Cycles },
  booktitle = { 4th International Conference on Advances in System
Testing and Validation Lifecycle (VALID) },
  publisher = { Xpert },
  pages = { 28-33 },
  year = { 2012 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199950 },
  cin = { 122810 / 120000 },
  url = {
http://www.thinkmind.org/index.php?view=article&articleid=valid_2012_1_50_40
107 },
}

@inbook { FK14,
  author = { Franke, Dominik and Kowalewski, Stefan },
  title = { Concept and Experiences on Using a Wiki-Based System for
Software-Related Seminar Papers },
  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 },
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volume = { 7991 },
series = { Lecture notes in computer science },
year = { 2014 },
address = { Berlin [u.a.] },
doi = { 10.1007/978-3-642-54338-8_11 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-202914 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/225247 },
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@inproceedings { FHK13,
  author = { Franke, Dominik and Hempel, Stefan and Kowalewski, Stefan },
  title = { Specifying Life Cycle Requirements in a Natural-like Language
and ptLTL },
  booktitle = { 2013 IEEE Sixth International Conference on Software
Testing, Verification and Validation Workshops (ICSTW), Luxembourg 18-22
March 2013 },
  publisher = { IEEE Computer Society },
  pages = { 120-121 },
  year = { 2013 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ICSTW.2013.72 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203748 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226262 },
}

@inproceedings { FEW+11,
  author = { Franke, Dominik and Elsemann, Corinna and Weise, Carsten and
Kowalewski, Stefan },
  title = { Reverse Engineering of Mobile Application Lifecycles },
  booktitle = { 2011 18th Working Conference on Reverse Engineering (WCRE
2011) : Limerick, Ireland, 17 - 20 October 2011 ; [proceedings] /
[Technically co-sponsored by IEEE Computer Society. Sponsored by
Reengineering Forum; IEEE-CS Technical Council on Software Engineering].
Ed.: Martin Pinzger },
  publisher = { IEEE },
  pages = { 283-292 },
  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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@techreport { FKL15,
  author = { Franke, Dominik and Kowalewski, Stefan and Lichter, Horst },
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    title = { Testing life cycle-related properties of mobile applications
},
    publisher = { Shaker },
    school = { RWTH Aachen University },
    pages = { X, 114 S. : Ill., graph. Darst. },
    volume = { 2015,02 },
    number = { AIB-2015-02 },
    series = { Aachener Informatik-Berichte },
    year = { 2015 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2015-01925 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/466122/files/466122.pdf },
}

@inproceedings { FDB+12,
    author = { Franke, Dominik and Dzafic, Dzenan and Baumeister, Danni and
Kowalewski, Stefan },
    title = { Energieeffizientes Routing f{"u}r Elektrorollst{"u}hle },
    booktitle = { 13. Aachener Kolloquium Mobilit{"a"}t und Stadt
(AMUS/ACMOTe) },
    publisher = { RWTH Aachen },
    pages = { 65-68 },
    year = { 2012 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-236333 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752300 },
}

@inproceedings { FSK12,
    author = { Franke, Dominik and Schommer, John and Kowalewski, Stefan },
    title = { Softwarequalit{"a"}t in der Mobilen Welt: Testen von
Lebenszyklen Mobiler Applikationen },
    booktitle = { Embedded Software Engineering Kongress (ESE) },
    publisher = { ELEKTRONIKPRAXIS },
    pages = { 478-482 },
    year = { 2012 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-236334 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752301 },
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@inproceedings { FKW12,
    author = { Franke, Dominik and Kowalewski, Stefan and Weise, Carsten },
    title = { A Mobile Software Quality Model },
    booktitle = { 12th International Conference on Quality Software (QSIC),
2012 : Xi'an, Shaanxi, China, 27 - 29 August 2012 ; proceedings; [including
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workshop papers] / technical sponsor: IEEE Reliability Society. Ed. by
Antony Tang ... },
  publisher = { IEEE },
  pages = { 154-157 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { 12th International Conference on Quality Software,
Xi'an, Shaanxi (Peoples R China), 2012-08-27 - 2012-08-29 },
  doi = { 10.1109/QSIC.2012.49 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236328 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752303 },
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@inproceedings { FDW+11a,
  author = { Franke, Dominik and Dzafic, Dzenan and Weise, Carsten and
Kowalewski, Stefan },
  title = { Konzept eines Mobilen OSM-Navigationssystems f{"u}r
Elektrofahrzeuge },
  booktitle = { Angewandte Geoinformatik 2011 - Beitr{"a"}ge zum 23.
AGIT-Symposium (AGIT) },
  publisher = { Wichmann Verlag },
  pages = { 148-157 },
  year = { 2011 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236326 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752310 },
}
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@inproceedings { GDF+12,
  author = { Gathmann, Felix and Dernehl, Christian and Franke, Dominik
and Kowalewski, Stefan },
  title = { An integrated vision aided GPS/INS Navigation System for
ultra-low-cost MAVs },
  booktitle = { International Micro Air Vehicle Conference (IMAV) },
  publisher = { IMAV },
  pages = { 1-8 },
  year = { 2012 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236329 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752304 },
}
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@inbook { GKS+13,
  author = { Gerlitz, Thomas and Kalkov, Igor and Schommer, John F. and
Franke, Dominik and Kowalewski, Stefan },
  title = { Non-Blocking Garbage Collection for Real-Time Android },
  booktitle = { 11th International Workshop on Java Technologies for
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Real-time and Embedded Systems : JTRES 2013 ; 9-10 October 2013, Karlsruhe,
Germany },
  publisher = { ACM },
  pages = { 108-117 },
  series = { ACM Digital Library },
  year = { 2013 },
  address = { New York, NY },
  doi = { 10.1145/2512989.2512999 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-202515 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/224782 },
}

@inproceedings { GTD15,
  author = { Gerlitz, Thomas and Tran, Quang Minh and Dziobek, Christian
},
  title = { Detection and Handling of Model Smells for MATLAB/Simulink
Models },
  booktitle = { 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) },
  publisher = { RWTH Aachen },
  pages = { 13-22 },
  series = { CEUR Workshop Proceedings },
  year = { 2015 },
  address = { Aachen, Germany },
  organization = { International Workshop on Modelling in Automotive
Software Engineering, Ottawa (Canada), 2015-09-27 - 2015-09-27 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-2016-03745 },
  cin = { 122810 / 120000 },
  url = { http://ceur-ws.org/Vol-1487/MASE_2015_paper_13.pdf },
}

@inproceedings { GK16,
  author = { Gerlitz, Thomas and Kowalewski, Stefan },
  title = { Architectural Analysis of MATLAB/Simulink Models with art
shop },
  booktitle = { WICSA 2016 : 2016 13th Working IEEE/IFIP Conference on
Software Architecture : proceedings / Henry Muccini and K. Eric Harper,
WICSA program chairs },
  publisher = { IEEE },
  pages = { 307-310 },
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year = { 2016 },
address = { Piscataway, NJ },
organization = { 2016 13th Working IEEE/IFIP Conference on Software
Architecture, Venice (Italy), 2016-04-05 - 2016-04-08 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-207906 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/573826 },
}
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@inproceedings { GHD+16,
author = { Gerlitz, Thomas and Hansen, Norman and Dernehl, Christian
and Kowalewski, Stefan },
title = { artshop: A Continuous Integration and Quality Assessment
Framework for Model-Based Software Artifacts },
booktitle = { [12. Dagstuhl-Workshop Modelbasierte Entwicklung
eingebetteter Systeme (MBEES) / Michaela Huhn (Ostfalia Hochschule –
Wolfenb{\u}ttel, DE), Matthias Riebisch (Universit{\a}t Hamburg, DE),
Bernhard Sch{\a}tz (fortiss GmbH – M{\u}nchen, DE)] },
publisher = { fortiss Technischer Bericht },
pages = { 13-22 },
year = { 2016 },
organization = { Modellbasierte Entwicklung eingebetteter Systeme,
Dagstuhl (Germany), 2016-03-30 - 2016-04-01 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-207908 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/573828 },
}
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@inproceedings { GSK15,
author = { Gerlitz, Thomas and Schake, Stefan and Kowalewski, Stefan },
title = { Duplikatserkennung und Refactoring in Matlab/Simulink-
Modellen },
booktitle = { Tagungsband Dagstuhl-Workshop MBEES: Modelbasierte
Entwicklungeingebetteter Systeme XI / Matthias Riebisch, Michaela Huhn, Jan
Philipps, Bernhard Sch{\a}tz },
pages = { 17-27 },
year = { 2015 },
organization = { Dagstuhl-Workshop MBEES, Dagstuhl (Germany),
2015-03-22 - 2015-03-25 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-207909 },
cin = { 122810 / 120000 },
url = { http://publications.embedded.rwth-aachen.de/file/60 },
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@inproceedings { GK16a,
author = { Gerlitz, Thomas and Kowalewski, Stefan },
title = { Architectural Analysis of MATLAB/Simulink Models with Artshop
},
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booktitle = { WICSA 2016 : 2016 13th Working IEEE/IFIP Conference on
Software Architecture : proceedings / Henry Muccini and K. Eric Harper,
WICSA program chairs },
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pages = { 307-310 },
year = { 2016 },
address = { Piscataway, NJ },
organization = { 2016 13th Working IEEE/IFIP Conference on Software
Architecture, Venice (Italy), 2016-04-05 - 2016-04-08 },
doi = { 10.1109/WICSA.2016.54 },
typ = { PUB:(DE-HGF)7 },
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cin = { 122810 / 120000 },
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@inproceedings { GK16b,
author = { Gerlitz, Thomas and Kowalewski, Stefan },
title = { Flow Sensitive Slicing for MATLAB/Simulink Models },
booktitle = { WICSA 2016 : 2016 13th Working IEEE/IFIP Conference on
Software Architecture : proceedings / Henry Muccini and K. Eric Harper,
WICSA program chairs },
publisher = { IEEE },
pages = { 81-90 },
year = { 2016 },
address = { Piscataway, NJ },
organization = { 2016 13th Working IEEE/IFIP Conference on Software
Architecture, Venice (Italy), 2016-04-05 - 2016-04-08 },
doi = { 10.1109/WICSA.2016.23 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2017-01171 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/682999 },
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@phdthesis { Ger17,
author = { Gerlitz, Thomas },
othercontributors = { Kowalewski, Stefan and Schaefer, Ina },
title = { Incremental Integration and Static Analysis of Model-Based
Automotive Software Artifacts },
publisher = { RWTH Aachen University, Department of Computer Science },
school = { RWTH Aachen University },
pages = { 1 Online-Ressource (xv, 191 Seiten) : Diagramme },
series = { Aachener Informatik Berichte },
year = { 2017 },
address = { Aachen },
doi = { 10.18154/RWTH-2017-08881 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2017-08881 },
cin = { 120000 / 122810 },
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http://publications.rwth-aachen.de/record/706814/files/706814.pdf },
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@inproceedings { GTN+16,
  author = { G{"o}be, Florian and Timmermanns, Thomas and Ney, Oliver
and Kowalewski, Stefan },
  title = { Synthesis Tool for Automation Controller Supervision },
  booktitle = { 2016 13th International Workshop on Discrete Event
Systems (WODES) : May 30-June 1, 2016, Xi'an, China / edited by Christos G.
Cassandras, Alessandro Giua, Zhiwu Li ; sponsored by IEEE - Control Systems
Society },
  publisher = { IEEE },
  pages = { 424-431 },
  year = { 2016 },
  address = { Piscataway, NJ },
  organization = { 2016 13th International Workshop on Discrete Event
Systems (WODES), Xi'an (Peoples R China), 2016-05-30 - 2016-06-01 },
  doi = { 10.1109/WODES.2016.7497883 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-11199 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/679437 },
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```
@inproceedings { GNK16,
  author = { G{"o}be, Florian and Ney, Oliver and Kowalewski, Stefan },
  title = { Reusability and Modularity of Safety Specifications for
Supervisory Control },
  booktitle = { 2016 IEEE 21st International Conference on Emerging
Technologies and Factory Automation (ETFA) : September 6-9, 2016 Berlin,
Germany / IEEE, IES, Fraunhofer IOSB-INA, InIT },
  publisher = { IEEE },
  pages = { 1-8 },
  year = { 2016 },
  address = { Piscataway, NJ },
  organization = { 21st International Conference on Emerging Technologies
and Factory Automation, Berlin (Germany), 2016-09-06 - 2016-09-09 },
  doi = { 10.1109/ETFA.2016.7733498 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2017-00123 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/681312 },
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@inproceedings { GAK18,
  author = { G{"o}be, 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 },
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    publisher = { IEEE },
    pages = { 8 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.2017.8247575 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2018-223454 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/722221 },
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@phdthesis { Gob19,
    author = { G{"o}be, Florian },
    othercontributors = { Kowalewski, Stefan and Lunze, Jan },
    title = { Runtime supervision of PLC programs using discrete-event
systems },
    publisher = { RWTH Aachen University, Department of Computer Science },
    school = { RWTH Aachen University },
    pages = { 1 Online-Ressource (xi, 170 Seiten) : Illustrationen,
Diagramme },
    series = { Aachener Informatik-Berichte },
    year = { 2019 },
    address = { Aachen },
    doi = { 10.18154/RWTH-2019-11022 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-2019-11022 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/773311/files/773311.pdf },
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@inproceedings { GKK+11,
    author = { Grobosch, Sebastian and Kamin, Volker and Krirkkawin,
Kriengkrai and Kowalewski, Stefan },
    title = { Using Timed Automata in Requirements Analysis for Engine
Control Units },
    booktitle = { Proceedings of the 18th IFAC World Congress, 2011 :
August 28 - September 2, 2011, Università Cattolica del Sacro Cuore, Milano
Italy / Ed.: Sergio Bittanti ... },
    publisher = { Curran },
    pages = { 12503-12508 },
    series = { IFAC-PapersOnLine },
    year = { 2011 },
    address = { Milano, Italy },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-173764 },
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cin = { 122810 / 120000 },
url = { http://dx.doi.org/10.3182/20110828-6-IT-1002.03679 },
}

@phdthesis { Gro19,
  author = { Grobosch, Sebastian },
  othercontributors = { Kowalewski, Stefan and Engell, Sebastian },
  title = { Formale Methoden f{"u}r die Entwicklung von eingebetteter
Software in kleinen und mittleren Unternehmen },
  publisher = { Shaker },
  school = { RWTH Aachen University },
  pages = { 1 Online-Ressource (ix, 162 Seiten) : Illustrationen,
Diagramme },
  series = { Aachener Informatik-Berichte },
  year = { 2019 },
  address = { D{"u}ren },
  isbn = { 978-3-8440-6984-6 },
  doi = { 10.18154/RWTH-2019-09536 },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-2019-09536 },
  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/768999/files/768999.pdf },
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@inproceedings { GKB+20,
  author = { Grochowski, M. and Kowalewski, Stefan and Buchsbaum, Melanie
Sarah Katharina and Brecher, C. },
  title = { Bef{"a}higung der Testautomatisierung f{"u}r ein cyber-
physisches Produktionssystem },
  booktitle = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : EKA 2020 :
05.-06. Mai 2020 : 16. Fachtagung mit Workshop; Magdeburg },
  publisher = { Otto-von-Guericke-Universit{"a}t Magdeburg;
Universitaetsbibliothek },
  pages = { 10 p. },
  year = { 2020 },
  address = { Magdeburg },
  organization = { Entwurf komplexer Automatisierungssysteme :
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : EKA 2020,
Magdeburg (Germany) },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2020-05985 },
  cin = { 417200 / 417310 / 080067 / 122810 / 120000 },
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@article { GSA+18,
  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 },
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    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 },
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@inproceedings { GKB+19,
    author = { Grochowski, Marco and Kowalewski, Stefan and Buchsbaum,
Melanie Sarah Katharina and Brecher, Christian },
    title = { Applying Runtime Monitoring to the Industrial Internet of
Things },
    booktitle = { 2019 24th IEEE International Conference on Emerging
Technologies and Factory Automation (ETFA) : Paraninfo Building, University
of Zaragoza, Zaragoza, Spain, 10-13 September, 2019 : proceedings /
organized by: University of Zaragoza, Spain ; sponsored by: the Institute of
Electrical and Electronics Engineers (IEEE), IEEE Industrial Electronics
Society (IES), Aragón Institute for Engineering Research (I3A), Spain },
    publisher = { IEEE },
    year = { 2019 },
    address = { Piscataway, NJ },
    organization = { 2019 24th IEEE International Conference on Emerging
Technologies and Factory Automation, Zaragoza (Spain), 2019-09-10 -
2019-09-13 },
    doi = { 10.1109/ETFA.2019.8869447 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-09795 },
    cin = { 122810 / 080067 / 417200 / 120000 / 417310 },
    url = {
http://publications.rwth-aachen.de/record/770889/files/770889.pdf },
    illkey = { EXC 2023: Internet of Production (IoP) (G:GEPRIS)390621612)
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@inproceedings { GKB+19a,
    author = { Grochowski, Marco and Kowalewski, Stefan and Buchsbaum,
Melanie Sarah Katharina and Brecher, Christian },
    title = { Applying Passive Testing to an Industrial Internet of Things
Plant },
    booktitle = { VALID 2019 : the Eleventh International Conference on
Advances in System Testing and Validation Lifecycle : November 24-28, 2019,

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Valencia, Spain / IARIA ; VALID 2019 editors: Jos van Rooyen (Identify - Software Quality Services, the Netherlands), Samuele Buro (University of Verona, Italy), Marco Campion (University of Verona, Italy), Michele Pasqua (University of Verona, Italy) },
 publisher = { IARIA },
 pages = { 31-37 },
 year = { 2019 },
 address = { [Wilmington, DE, USA] },
 organization = { VALID 2019, The Eleventh International Conference on Advances in System Testing and Validation Lifecycle, Valencia (Spain), 2019-11-24 - 2019-11-28 },
 typ = { PUB:(DE-HGF)7 },
 reportid = { RWTH-2019-11004 },
 cin = { 122810 / 417200 / 080067 / 120000 / 417310 },
 url = {
http://thinkmind.org/index.php?view=article&articleid=valid_2019_2_30_40023
 },
 }

@article { GSB+20,
 author = { Grochowski, Marco and Simon, Hendrik and Bohlender, Dimitri and Kowalewski, Stefan and L{"o"}cklin, Andreas and M{"u"}ller, Timo and Jazdi, Nasser and Zeller, Andreas and Weyrich, Michael },
 title = { Formale Methoden f{"u"}r rekonfigurierbare cyber-physische Systeme in der Produktion },
 journal = { Automatisierungstechnik },
 publisher = { De Gruyter },
 pages = { 3-14 },
 volume = { 68 },
 number = { 1 },
 year = { 2020 },
 address = { Berlin },
 issn = { 2196-677X },
 doi = { 10.1515/auto-2019-0115 },
 typ = { PUB:(DE-HGF)16 },
 reportid = { RWTH-2019-12214 },
 cin = { 122810 / 120000 },
 }

@phdthesis { Gru17,
 author = { Gr{"u"}ner, Sten },
 othercontributors = { Epple, Ulrich and Kowalewski, Stefan },
 title = { Ressourcenadaptive Anwendungen f{"u"}r die operative Prozessleittechnik },
 publisher = { VDI Verlag GmbH },
 school = { RWTH Aachen University },
 pages = { XIII, 152 Seiten : Illustrationen, Diagramme },
 series = { Fortschrittberichte VDI. Reihe 8, Me{"ss"}-, Steuerungs- und Regelungstechnik },
 year = { 2017 },
 address = { D{"u"}sseldorf },
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    isbn = { 978-3-18-525708-7 },
    typ = { PUB:(DE-HGF)3 },
    reportid = { RWTH-2017-07964 },
    cin = { 526610 / 520000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/698845 },
}

@inproceedings { Guc09,
  author = { G{"u}ckel, Dominique },
  title = { Retargeting a hardware-dependent model checker by using
architecture description languages },
  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.) },
  publisher = { RWTH Aachen, Department of Computer Science },
  pages = { 7-9 },
  series = { Aachener Informatik Berichte : AIB },
  year = { 2009 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172525 },
  cin = { 122810 / 120000 },
  url = {
http://sunsite.informatik.rwth-aachen.de/Publications/AIB/2009/2009-14.pdf
},
}

@inproceedings { GBK10,
  author = { G{"u}ckel, Dominique and Brauer, J{"o}rg and Kowalewski,
Stefan },
  title = { A System for Synthesizing Abstraction-Enabled Simulators for
Binary Code Verification },
  booktitle = { 2010 International Symposium on Industrial Embedded
Systems (SIES 2010) : Trento, Italy, 7 - 9 July 2010 / [University of
Trento, Italy; IEEE; IES] },
  publisher = { IEEE },
  pages = { 118-127 },
  year = { 2010 },
  address = { Piscataway, NJ },
  doi = { 10.1109/SIES.2010.5551382 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-190384 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/119226 },
}

@inproceedings { GSB+10,
  author = { G{"u}ckel, Dominique and Schlich, Bastian and Brauer,
J{"o}rg and Kowalewski, Stefan },

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title = { Synthesizing Simulators for Model Checking Microcontroller
Binary },
booktitle = { Proceedings of the 13th IEEE Symposium on Design and
Diagnostics of Electronic Circuits and Systems : April 14–16, 2010, Vienna,
Austria / Sponsored by IEEE Computer Society, Test Technology Techn.
Council, In coop. with Dept. of Computer Engineering, Fac. of Informatics,
Vienna Univ. of Techn. },
publisher = { IEEE },
pages = { 313-316 },
year = { 2010 },
address = { Piscataway, NJ },
doi = { 10.1109/DDECS.2010.5491761 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-190385 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/119227 },
}

@inproceedings { GK11,
author = { G{"u"}ckel, Dominique and Kowalewski, Stefan },
title = { Automatic Derivation of Abstract Semantics From Instruction
Set Descriptions },
booktitle = { Proceedings of the 6th International Workshop on Systems
Software Verification / (SSV 2011), Institut of Systems Architecture.
Technische Universit{"a"}t Dresden, Fakult{"a"}t Informatik. J{"o"}rg Brauer
... (ed.) },
publisher = { TU, Fak. Informatik },
pages = { 18-32 },
year = { 2011 },
address = { Dresden },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-198497 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/128380 },
}

@phdthesis { Guc14,
author = { G{"u"}ckel, Dominique },
othercontributors = { Kowalewski, Stefan and Leupers, Rainer },
title = { Synthesis of state space generators for model checking
microcontroller code },
publisher = { Fachgruppe Informatik, RWTH Aachen University },
school = { Aachen, Techn. Hochsch. },
pages = { XI, 181 S. : Ill., graph. Darst. },
series = { Aachener Informatik-Berichte Technical report / Department
of Computer Science, RWTH Aachen },
year = { 2014 },
address = { Aachen },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-CONV-207070 },
cin = { 122810 / 120000 },
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    url = { http://publications.rwth-aachen.de/record/464374/files/5296.pdf
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HBK15,
    author = { Hamadache, Salsabil and Borchers, Jan Oliver and Kowalewski,
Stefan },
    title = { LumiCAD : Interactive Organic Generative Design for Personal
Photonics with OLEDs },
    school = { Aachen, Techn. Hochsch. },
    pages = { XXI, 53 S. : Ill. },
    year = { 2015 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)2 },
    reportid = { RWTH-2015-06552 },
    cin = { 122710 / 120000 / 122810 },
    url = {
http://hci.rwth-aachen.de/materials/publications/hamadache2015a.pdf },
}

@inproceedings { HSK11,
    author = { H{"a}nsch, Paul and Schommer, John F. and Kowalewski,
Stefan },
    title = { Self-balancing Controllable Robots in Education: A Practical
Course for Bachelor Students },
    booktitle = { Intelligent robotics and applications : 4th international
conference, ICIRA 2011, Aachen, Germany, December 6 - 8, 2011 ; proceedings
/ Sabina Jeschke; Honghai Liu; Daniel Schilberg (eds.) },
    publisher = { Springer Verlag },
    pages = { 297-306 },
    series = { Lecture notes in computer science : Lecture notes in
artificial intelligence },
    year = { 2011 },
    address = { Berlin, Heidelberg },
    doi = { 10.1007/978-3-642-25489-5_29 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-188864 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/117482 },
}

@inproceedings { HK12,
    author = { H{"a}nsch, Paul and Kowalewski, Stefan },
    title = { Invariants for LTI Systems with Uncertain Input },
    booktitle = { Reachability Problems : 6th International Workshop, RP
2012, Bordeaux, France, September 17-19, 2012. Proceedings / ed. by Alain
Finkel, Jérôme Leroux, Igor Potapov },
    publisher = { Springer },
    pages = { 137-148 },
    series = { Lecture Notes in Computer Science },
    year = { 2012 },
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address = { Berlin ; Heidelberg },
doi = { 10.1007/978-3-642-33512-9_12 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-189555 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/118309 },
}

@article { HDB+13,
  author = { H{"a"}nsch, Paul and Diab, Hilal and Ben Makhlouf, Ibtissem
and Kowalewski, Stefan },
  title = { Reachability Analysis of Linear Systems with Stepwise
Constant Inputs },
  journal = { Electronic notes in theoretical computer science : ENTCS },
  publisher = { Elsevier },
  pages = { 61-74 },
  volume = { 297 },
  year = { 2013 },
  address = { Amsterdam },
  issn = { 1571-0661 },
  doi = { 10.1016/j.entcs.2013.12.005 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-088053 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/445077 },
}

@inbook { HF13,
  author = { Hansen, Norman and Franke, Dominik },
  title = { Reverse Engineering des Windows Phone Process Execution
Models },
  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
fachwissenschaftlicher Informatik-Kongress 22. und 23. M{"a"}rz 2013 B-IT
Bonn-Aachen International Center for Information Technology, Bonn /
Gesellschaft f{"u"}r Informatik (Hrsg.). [Red.: Ludger Porada] },
  publisher = { Gesellschaft f{"u"}r Informatik e.V. },
  pages = { 83-86 },
  volume = { 12 },
  series = { GI-Edition : lecture notes in informatics },
  year = { 2013 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-204143 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/226725 },
}

@inproceedings { HWK+17,
  author = { Hansen, Norman and Wiechowski, Norbert and Kugler, Alexander
and Kowalewski, Stefan and Rambow, Thomas and Busch, Rainer },
  title = { Model-in-the-Loop and Software-in-the-Loop Testing of Closed-
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Loop Automotive Software with Arttest },
  booktitle = { Informatik 2017 - B{\a}nde I-III : Tagung vom 25.-29.
September 2017 in Chemnitz / Maximilian Eibl, Martin Gaedke (Hrsg.) },
  publisher = { Gesellschaft f{\u}r Informatik },
  pages = { 1537-1549 },
  series = { GI-Edition : lecture notes in informatics. Proceedings },
  year = { 2017 },
  address = { Bonn },
  organization = { 47. Jahrestagung der Gesellschaft f{\u}r Informatik
e.V. (GI), Chemnitz (Germany), 2017-09-25 - 2017-09-29 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236306 },
  cin = { 122810 / 120000 },
  url = { https://dl.gi.de/handle/20.500.12116/21 },
}

@phdthesis { Has15,
  author = { Hassani, Marwan },
  othercontributors = { Seidl, Thomas and Gaber, Mohamed Medhat and
Kowalewski, Stefan },
  title = { Efficient clustering of big data streams },
  publisher = { Apprimus-Verl. },
  school = { Zugl.: Aachen, Techn. Hochsch. },
  pages = { III, 244, XXV S. : graph. Darst. },
  series = { Ergebnisse aus der Informatik },
  year = { 2015 },
  address = { Aachen },
  isbn = { 978-3-86359-318-6 },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-2015-02790 },
  cin = { 122510 / 120000 / 122810 },
  url = {
http://publications.rwth-aachen.de/record/478963/files/478963_source.zip },
}

@inbook { HBS+15,
  author = { Hauck-Stattelmann, Stefan and Biallas, Sebastian and
Schlich, Bastian and Kowalewski, Stefan and Jetley, Raoul },
  title = { Analyzing the Restart Behavior of Industrial Control
Applications },
  booktitle = { FM 2015: formal methods : 20th international symposium,
Oslo, Norway, June 24 - 26, 2015 ; proceedings / Nikolaj Bjørner; Frank de
Boer (eds.) },
  publisher = { Cham },
  pages = { 585-588 },
  volume = { 9109 },
  series = { Lecture Notes in Computer Science },
  year = { 2015 },
  address = { Springer International Publishing },
  organization = { 20th International Symposium Formal Methods, Oslo
(Norway), 2015-06-24 - 2015-06-26 },
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doi = { 10.1007/978-3-319-19249-9_38 },
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/541096 },
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@article { HSW+08,
  author = { Herberich, Gerlind and Schlich, Bastian and Weise, Carsten
and Noll, Thomas },
  title = { Proving correctness of an efficient abstraction for interrupt
handling },
  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 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-012122 },
  cin = { 122810 / 121310 / 120000 },
  url = { http://publications.rwth-aachen.de/record/130980 },
}

HSS+08,
  author = { Herding, Daniel Chu and Spannagel, Christian and Schroeder,
Ulrik and Kowalewski, Stefan },
  title = { Entwicklungswerkzeug zur Realisierung funktionaler GUI-
Prototypen f{"u}r die Durchf{"u}hrung empirischer Usability-Studien mit
Jacareto },
  year = { 2008 },
  address = { Aachen, Germany },
  typ = { PUB:(DE-HGF)10 },
  reportid = { RWTH-CONV-144868 },
  cin = { 120000 / 122420 / 122810 },
  url = { http://lufgi9.informatik.rwth-aachen.de/HerdingDipl },
}

@phdthesis { Hud17,
  author = { Hudecek, Janek },
  othercontributors = { Eckstein, Lutz and Kowalewski, Stefan },
  title = { Trajektorienplanung f{"u}r hochautomatisierte Kraftfahrzeuge
mittels echtzeitf{"a"}higer nichtlinearer modellpr{"a"}diktiver Regelung },
  publisher = { fka Forschungsgesellschaft Kraftfahrwesen mbH Aachen },
  school = { RWTH Aachen University },
  pages = { 172 Seiten : Illustrationen, Diagramme },
  series = { Schriftenreihe Automobiltechnik },
  year = { 2017 },
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    isbn = { 978-3-946019-09-1 },
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@proceedings { HKK+09,
    editor = { Hutchison, David and Kanade, Takeo and Kittler, Josef and
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 },
    publisher = { Springer Berlin Heidelberg },
    series = { LNCS },
    year = { 2009 },
    address = { Berlin, Heidelberg },
    organization = { 15th International Conference, TACAS 2009, York (UK),
2009-03-22 - 2009-03-29 },
    doi = { 10.1007/978-3-642-00768-2 },
    typ = { PUB:(DE-HGF)26 },
    reportid = { RWTH-CONV-236344 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752316 },
}

@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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    doi = { 10.1007/978-3-540-88387-6_17 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-095469 },
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@article { JSS+20,
  author = { Janisch, Thorsten and Stollenwerk, André and Siekmann,
Ulrich and Kopp, R{"u}dger },
  title = { Treatment of children with Hyperbaric Oxygenation (HBOT) : an
Europe-wide survey },
  journal = { Minerva Pediatrica },
  publisher = { Ed. Minerva Medica },
  year = { 2020 },
  address = { Torino },
  issn = { 1827-1715 },
  doi = { 10.23736/S0026-4946.20.05741-2 },
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http://publications.rwth-aachen.de/record/787714/files/787714.pdf },
}

@inbook { JGN14,
  author = { Jansen, Christina and G{"o}be, Florian and Noll, Thomas },
  title = { Generating Inductive Predicates for Symbolic Execution of
Pointer-Manipulating Programs },
  booktitle = { Graph transformation : 7th international conference, ICGT
2014, held as part of STAF 2014, York, UK, July 22 - 24, 2014 ; proceedings
/ Holger Giese ... (eds.) },
  publisher = { Springer },
  pages = { 65-80 },
  volume = { 8571 },
  series = { Lecture notes in computer science },
  year = { 2014 },
  address = { Cham [u.a.] },
  doi = { 10.1007/978-3-319-09108-2_5 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-206171 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/444215 },
}

@inproceedings { JMR+15,
  author = { Jawawi, Dayang N. A. and Mamat, Rosbi and Ridzuan, Fakhitah
and Khatibsyarbini, Muhammad and Zulkifli, M. and Zaki, Mohammed Javeed },
  title = { Introducing computer programming to secondary school students
using mobile robots },
  booktitle = { 2015 10th Asian Control Conference (ASCC 2015) : Kota
Kinabalu, Malaysia, 31 May - 3 June 2015 ; proceedings / ed.: Azura Che Soh
... },
  publisher = { IEEE },
  year = { 2015 },
  address = { Piscataway, NJ },
  organization = { 2015 10th Asian Control Conference, Kota Kinabalu
(Malaysia), 2015-05-31 - 2015-06-03 },
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doi = { 10.1109/ASCC.2015.7244750 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2016-12202 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/681097 },
}

@inproceedings { KFS+12,
  author = { Kalkov, Igor and Franke, Dominik and Schommer, John F. and
Kowalewski, Stefan },
  title = { A Real-time Extension to the Android Platform },
  booktitle = { JTRES 2012 : proceedings of the 10th International
Workshop on Java Technologies for Real-time and Embedded Systems, October
24-26, 2012, Copenhagen, Denmark / Andy Wellings ... },
  publisher = { ACM Press },
  pages = { 105-114 },
  series = { ACM conference proceedings series },
  year = { 2012 },
  address = { New York, N.Y. },
  doi = { 10.1145/2388936.2388955 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-199219 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/129215 },
}

@inbook { KGK14,
  author = { Kalkov, Igor and Gurchian, Alexandru and Kowalewski, Stefan
},
  title = { Predictable Broadcasting of Parallel Intents in Real-Time
Android },
  booktitle = { Proceedings of the 12th International Workshop on Java
Technologies for Real-time and Embedded Systems : JTRES 2014 : Niagara
Falls, NY, USA, October 13th-14th, 2014 },
  publisher = { ACM },
  pages = { 57-66 },
  series = { ACM international conference proceedings series },
  year = { 2014 },
  address = { New York, New York },
  organization = { 12th International Workshop on Java Technologies for
Real-time and Embedded Systems, Niagara Falls, NY (USA), 2014-10-13 -
2014-10-14 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-205503 },
  cin = { 120000 / 122810 },
  url = { http://publications.embedded.rwth-aachen.de/file/5g },
}

@inproceedings { KGK15,
  author = { Kalkov, Igor and Gurchian, Alexandru and Kowalewski, Stefan
},
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title = { Priority Inheritance during Remote Procedure Calls in Real-
Time Android using Extended Binder Framework },
booktitle = { 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 },
publisher = { ACM Press New York, New York, USA },
pages = { 5, 10 Seiten },
year = { 2015 },
organization = { 13th International Workshop on Java Technologies for
Real-time and Embedded Systems, Paris (France), 2015-10-07 - 2015-10-08 },
doi = { 10.1145/2822304.2822311 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-2016-03747 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/573802 },
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@inproceedings { KGK17,
author = { Kalkov, Igor and Gurchian, Alexandru and Kowalewski, Stefan
},
title = { Explicit prioritization of parallel Intent broadcasts in
real-time Android },
booktitle = { Concurrency and computation },
publisher = { Wiley },
volume = { 29 },
number = { 22 },
year = { 2017 },
address = { Chichester },
issn = { 1532-0626 },
organization = { 12th International workshop on Java Technologies for
Real-Time and Embedded systems, Niagara Falls, NY (USA), 2014-10-13 -
2014-10-14 },
doi = { 10.1002/cpe.4122 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2017-09553 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/707959 },
}
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@phdthesis { Kal17,
author = { Kalkov, Igor },
othercontributors = { Kowalewski, Stefan and A{\ss}mann, Uwe },
title = { A real-time capable, open-source-based platform for off-the-
shelf embedded devices },
publisher = { RWTH Aachen University, Department of Computer Science },
school = { RWTH Aachen University },
pages = { 1 Online-Ressource (xx, 114 Seiten) : Illustrationen,
Diagramme },
series = { Aachener Informatik-Berichte },
year = { 2017 },
address = { Aachen },
}
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doi = { 10.18154/RWTH-2018-222005 },
typ = { PUB:(DE-HGF)3 },
reportid = { RWTH-2018-222005 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/719343/files/719343.pdf },
}

@inproceedings { KAK+19,
  author = { Kampmann, Alexandru and Alrifaae, Bassam and Kohout, Markus
and W{"u}stenberg, Andreas and Woopen, Timo and Nolte, Marcus and Eckstein,
Lutz and Kowalewski, Stefan },
  title = { A Dynamic Service-Oriented Software Architecture for Highly
Automated Vehicles },
  booktitle = { The 2019 IEEE Intelligent Transportation Systems
Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-
ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },
  publisher = { IEEE },
  pages = { 2101-2108 },
  year = { 2019 },
  address = { Piscataway, NJ },
  organization = { 22nd IEEE Intelligent Transportation Systems
Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
  doi = { 10.1109/ITSC.2019.8916841 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2019-11214 },
  cin = { 122810 / 414110 / 120000 },
  url = { http://publications.rwth-aachen.de/record/773699 },
}

@inproceedings { KWA+19,
  author = { Kampmann, Alexandru and W{"u}stenberg, Andreas and
Alrifaae, Bassam and Kowalewski, Stefan },
  title = { A Portable Implementation of the Real-Time Publish-Subscribe
Protocol for Microcontrollers in Distributed Robotic Applications },
  booktitle = { The 2019 IEEE Intelligent Transportation Systems
Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-
ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },
  publisher = { IEEE },
  pages = { 443-448 },
  year = { 2019 },
  address = { Piscataway, NJ },
  organization = { 22nd IEEE Intelligent Transportation Systems
Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
  doi = { 10.1109/ITSC.2019.8916835 },
  typ = { PUB:(DE-HGF)7 },
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  cin = { 122810 / 120000 },
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@inproceedings { KNR+19,  
  author = { Keilhoff, Dan and Niedballa, Dennis and Reuss, Hans-  
Christian and Buchholz, Michael and Gies, Fabian and Dietmayer, Klaus and  
Lauer, Martin and Stiller, Christoph and Ackermann, Stefan and Winner,  
Hermann and Kampmann, Alexandru and Alrifae, Bassam and Kowalewski, Stefan  
and Klein, Fabian and Struth, Michael Manfred and Woopen, Timo and Eckstein,  
Lutz },  
  title = { UNICARagil - New architectures for disruptive vehicle  
concepts },  
  booktitle = { 19. Internationales Stuttgarter Symposium : Automobil-  
und Motorentechnik / herausgegeben von Michael Bargende, Hans-Christian  
Reuss, Andreas Wagner, Jochen Wiedemann },  
  publisher = { Springer Fachmedien Wiesbaden },  
  pages = { 830-842 },  
  series = { Proceedings Springer eBooks },  
  year = { 2019 },  
  address = { Wiesbaden },  
  organization = { 19. Internationales Stuttgarter Symposium : Automobil-  
und Motorentechnik, Stuttgart (Germany), 2019-03-19 - 2019-03-20 },  
  doi = { 10.1007/978-3-658-25939-6_65 },  
  typ = { PUB:(DE-HGF)7 },  
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@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 },  
  booktitle = { [17th IEEE International Conference on Industrial  
Informatics, INDIN 2019, 2019-07-22 - 2019-07-25, Helsinki, Finland] },  
  pages = { 419-424 },  
  year = { 2019 },  
  organization = { 17th IEEE International Conference on Industrial  
Informatics, Helsinki (Finland), 2019-07-22 - 2019-07-25 },  
  doi = { 10.1109/INDIN41052.2019.8972277 },  
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@article { KHS09,  
  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 },
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    year = { 2009 },
    address = { Dordrecht [u.a.] },
    issn = { 0168-7433 },
    doi = { 10.1007/s10817-009-9126-9 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-065212 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/188901 },
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@inproceedings { KKM+19,
    author = { Kloock, Maximilian and Kragl, Ludwig and Maczijewski, Janis
and Alrifaae, Bassam and Kowalewski, Stefan },
    title = { Distributed Model Predictive Pose Control of Multiple
Nonholonomic Vehicles },
    booktitle = { 2019 IEEE Intelligent Vehicles Symposium (IV) :
[Proceedings] },
    publisher = { IEEE },
    pages = { 1620-1625 },
    year = { 2019 },
    address = { [Piscataway, NJ] },
    organization = { 2019 IEEE Intelligent Vehicles Symposium (IV), Paris
(France), 2019-06-09 - 2019-06-12 },
    doi = { 10.1109/IVS.2019.8813980 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-08197 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/766610 },
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@inproceedings { KSB+19,
    author = { Kloock, Maximilian Martin and Scheffe, Patrick and Botz,
Lukas and Maczijewski, Janis and Alrifaae, Bassam and Kowalewski, Stefan },
    title = { Networked Model Predictive Vehicle Race Control },
    booktitle = { The 2019 IEEE Intelligent Transportation Systems
Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-
ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },
    publisher = { IEEE },
    pages = { 1552-1557 },
    year = { 2019 },
    address = { Piscataway, NJ },
    organization = { 22nd IEEE Intelligent Transportation Systems
Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
    doi = { 10.1109/ITSC.2019.8917222 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-11241 },
    cin = { 122810 / 120000 },
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@inproceedings { KSM+19,
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author = { Kloock, Maximilian Martin and Scheffe, Patrick and
Marquardt, Sascha and Maczijewski, Janis and Alrifaae, Bassam and
Kowalewski, Stefan },
title = { Distributed Model Predictive Intersection Control of Multiple
Vehicles },
booktitle = { The 2019 IEEE Intelligent Transportation Systems
Conference - ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE, IEEE-
ITSC 2019, ITSS - IEEE Intelligent Transportation Systems Society },
publisher = { IEEE },
pages = { 8917117, 1735-1740 },
year = { 2019 },
address = { Piscataway, NJ },
organization = { 22nd IEEE Intelligent Transportation Systems
Conference, Auckland (New Zealand), 2019-10-27 - 2019-10-30 },
doi = { 10.1109/ITSC.2019.8917117 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2019-11242 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/773728 },
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@phdthesis { Klu09,
author = { Kl{\u}nder, Daniel },
othercontributors = { Kowalewski, Stefan },
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 },
address = { Aachen },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-CONV-114049 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/51797/files/Kluender_Daniel.pdf },
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@inproceedings { Klu08,
author = { Kl{\u}nder, Daniel },
title = { Modellierung und Analyse von Fahrzeugsoftware mit Abstract
State Machines },
booktitle = { Modellierung 2008 : 12. - 14. M{\a}rz 2008, Berlin /
Thomas K{\u}hne ... (Hrsg.) },
publisher = { Ges. f. Informatik },
pages = { 225-228 },
series = { GI-Edition : Proceedings },
year = { 2008 },
address = { Bonn: },
typ = { PUB:(DE-HGF)8 },
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    cin = { 122810 / 120000 },
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http://subs.emis.de/LNI/Proceedings/Proceedings127/gi-proc-127-017.pdf },
}

@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 :
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 f{"u}r
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 },
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@inproceedings { Klu06,
    author = { Kl{"u}nder, Daniel },
    title = { An approach to resolving contradicions in software
architecture design },
    booktitle = { Perspectives in software architecture quality : short
papers of the 2nd International Conference on the Quality of Software
Architectures (QoSA 2006), June 27 - 29, 2006, V{"a}steras, Sweden / Hrsg.:
Christine Hofmeister ... Universit{"a}t Karlsruhe, Fakult{"a}t f{"u}r
Informatik },
    publisher = { Univ., Fak. f{"u}r Informatik, Bibliothek },
    series = { Interner Bericht / Universit{"a}t Karlsruhe, Fakult{"a}t
f{"u}r Informatik },
    year = { 2006 },
    address = { Karlsruhe },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-183673 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/111723 },
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@inproceedings { Klu06a,
    author = { Kl{"u}nder, Daniel },
    title = { TRIZ for Software Architecture },
    booktitle = { ETRIA TRIZ future 06 : proceedings of the ETRIA TRIZ
Future Conference 2006 ; creativity, quality and efficiency building an

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innovation culture ; held in Kortrijk, Belgium, October 9th - 11th, 2006 / ETRIA; CREAX; Katholieke Universiteit Leuven. Ed.: Joost R. Duflou - Vol. 1-2 },

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publisher = { CREAX },
year = { 2006 },
address = { Leper, Belgium },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-183687 },
cin = { 122810 / 120000 },
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@inproceedings { Klu06b,
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architecture design },
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papers of the 2nd International Conference on the Quality of Software
Architectures (QoSA 2006), June 27 - 29, 2006, V{"a}steras, Sweden / Hrsg.:
Christine Hofmeister ... Universit{"a"}t Karlsruhe, Fakult{"a"}t f{"u"}r
Informatik },
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publisher = { Univ., Fak. f{"u"}r Informatik, Bibliothek },
pages = { 59-63 },
series = { Interner Bericht / Universit{"a"}t Karlsruhe, Fakult{"a"}t
f{"u"}r Informatik },
year = { 2006 },
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typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188519 },
cin = { 122810 / 120000 },
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http://www.ubka.uni-karlsruhe.de/cgi-bin/psview?document=ira/2006/10 },
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@inproceedings { KK07,
  author = { Kl{"u}nder, Daniel and Kowalewski, Stefan },
  title = { Scenario-based evaluation of abstract state machines },
  booktitle = { The 14th International ASM Workshop (ASM'07) / (Ed.)
Prinz, Andreas },
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year = { 2007 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188521 },
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http://ikt.hia.no/asm07/Proceedings/Papers/Klunder_Kowalewski.pdf },
}
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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
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Programmers' Perspective (SVPP 2008) },
  year = { 2008 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-236338 },
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  url = { http://publications.rwth-aachen.de/record/752319 },
}

@inproceedings { KBL+19,
  author = { K{"o}hl, Maximilian A. and Baum, Kevin and Langer, Markus
and Oster, Daniel and Speith, Timo and Bohlender, Dimitri },
  title = { Explainability as a Non-Functional Requirement },
  booktitle = { 2019 IEEE 27th International Requirements Engineering
Conference : 23-27 September 2019, Jeju Island, South Korea : proceedings /
editors: Daniela Damian and Anna Perini (Program Chairs), Seok-Won Lee
(General Chair) },
  publisher = { IEEE },
  pages = { 363-368 },
  year = { 2019 },
  address = { Piscataway, JN },
  organization = { 2019 IEEE 27th International Requirements Engineering
Conference, Jeju Island (South Korea), 2019-09-23 - 2019-09-27 },
  doi = { 10.1109/RE.2019.00046 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2019-12206 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/775403 },
}

@inbook { KLK09,
  author = { Kopp, R{"u}dger and Leonhardt, Steffen and Kowalewski,
Stefan },
  title = { Extracorporeal Membrane Oxygenation for Cardiac and 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 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-0-387-92278-2_33 },
  typ = { PUB:(DE-HGF)7 },
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  url = { http://publications.rwth-aachen.de/record/83542 },
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@article { KWA+09,
  author = { Kopp, R{"u}dger and Walter, Marian and Arens, Jutta and
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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 },
number = { 5 },
year = { 2009 },
address = { Berlin [u.a.] },
issn = { 0013-5585 },
doi = { 10.1515/BMT.2009.036 },
typ = { PUB:(DE-HGF)16 },
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cin = { 120000533000-3811001-1533000-2 / 122810 / 611010811001-4 },
url = { <http://publications.rwth-aachen.de/record/132651> },
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@article { KRS+11,
author = { Kopp, R{"u}dger and Rossaint, Rolf and Schmitz-Rode, Thomas and Steinseifer, Ulrich and Arens, Jutta and Bensberg, Ralf and Henzler, Dietrich },
title = { A Miniaturized Extracorporeal Membrane Oxygenator with Integrated Rotary Blood Pump: Preclinical In Vivo Testing },
journal = { ASAIO journal },
publisher = { Lippincott },
pages = { 158-163 },
volume = { 57 },
number = { 3 },
year = { 2011 },
address = { Hagerstown, Md. },
issn = { 0162-1432 },
doi = { 10.1097/MAT.0b013e31820bffa9 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-022380 },
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url = { <http://publications.rwth-aachen.de/record/142316> },
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@inproceedings { KBW+11,
author = { Kopp, R{"u}dger and Bensberg, Ralf and Walter, Marian and Arens, Jutta and Rossaint, Rolf and Stollenwerk, André },
title = { Automation of extracorporeal membrane oxygenation using a combined safety and control concept },
booktitle = { Intensive care medicine },
publisher = { Springer },
pages = { 230-230 },
volume = { 37 },
number = { S1 },
year = { 2011 },

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address = { Berlin [u.a.] },
issn = { 0340-0964 },
doi = { 10.1007/s00134-011-2322-1 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-003313 },
cin = { 122810 / 611010 / 120000 },
url = { http://publications.rwth-aachen.de/record/156873 },
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@article { KBS+16,
  author = { Kopp, R{"u}dger and Bensberg, Ralf and Stollenwerk, Andr{e}
and Arens, Jutta and Grottke, Oliver and Walter, Marian and Rossaint, Rolf
},
  title = { Automatic Control of Veno-Venous Extracorporeal Lung Assist :
Presented in part at the 13th Congress of DIVI held December 4-6, 2013 in
Leipzig, Germany },
  journal = { Artificial organs },
  publisher = { Wiley-Blackwell },
  pages = { 992-998 },
  volume = { 40 },
  number = { 10 },
  year = { 2016 },
  address = { Oxford [u.a.] },
  issn = { 0160-564X },
  doi = { 10.1111/aor.12664 },
  typ = { PUB:(DE-HGF)16 },
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  cin = { 611010533000-2533000-3 / 122810811001-1 / 120000811001-4 },
  url = { http://publications.rwth-aachen.de/record/567958 },
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@proceedings { KP09,
  editor = { 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 / 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 },
  address = { Berlin [u.a.] },
  typ = { PUB:(DE-HGF)26 },
  reportid = { RWTH-CONV-093514 },
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  url = {
http://www.springer.com/computer/theoretical+computer+science/book/978-3-540
-41865-8 },
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}

@inproceedings { KRS12,
  author = { Kowalewski, Stefan and Rumpe, Bernhard and Stollenwerk,
André },
  title = { Cyber-Physical Systems - eine Herausforderung an die
Automatisierungstechnik? },
  booktitle = { Automation 2012 : der 13. Branchentreff der Mess- und
Automatisierungstechnik / VDI/VDE-Gesellschaft Mess- und
Automatisierungstechnik ; Kongress 'Automation 2012' ; 13 (Baden-Baden) ;
2011.06.13-14Branchentreff der Mess- und Automatisierungstechnik },
  publisher = { VDI-Verl. },
  pages = { 113-116 },
  series = { VDI-Berichte },
  year = { 2012 },
  address = { D{"u"}sseldorf },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-194506 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/123658 },
}

@proceedings { KR13,
  editor = { Kowalewski, Stefan and Rumpe, Bernhard },
  title = { Software Engineering 2013 : Fachtagung des GI-Fachbereichs
Softwaretechnik 26. Februar - 1. M{"a"}rz 2013 in Aachen },
  publisher = { Ges. f{"u"}r Informatik },
  pages = { 379 S. : Ill., graph. Darst. },
  volume = { 213 },
  series = { GI-Edition : Proceedings },
  year = { 2013 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)26 },
  reportid = { RWTH-CONV-108546 },
  cin = { 120000 / 121510 / 122810 },
  url = { http://publications.rwth-aachen.de/record/206706 },
}

@article { KRR14,
  author = { Kowalewski, Stefan and Ringert, Jan Oliver and Rumpe,
Bernhard },
  title = { Editorial for the Software Engineering 2013 Conference },
  journal = { Computer science - research and development },
  publisher = { Springer },
  year = { 2014 },
  address = { Berlin },
  issn = { 1865-2034 },
  doi = { 10.1007/s00450-014-0274-8 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2015-03183 },
  cin = { 121510 / 120000 / 122810 },
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url = { http://publications.rwth-aachen.de/record/479562 },
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@article { KK0+15,
  author = { Kowalewski, Stefan and Kalkov, Igor and Obster, Mathias and
Th{\\"o}nnessen, David },
  title = { Echtzeiterweiterung f{\\"u}r Android: SPS inside },
  journal = { IEE - Elektrische Automatisierung + Antriebstechnik },
  publisher = { IEE },
  pages = { 58-61 },
  year = { 2015 },
  issn = { 1434-2898 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-236305 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752275 },
}

@article { KPB13,
  author = { Kowalewski, Stefan and Philippou, A. and Brauer, J. },
  title = { Model checking and abstract interpretation as building blocks
of advanced program analysis techniques },
  journal = { International journal on software tools for technology
transfer : STTT },
  publisher = { Springer },
  pages = { 287-289 },
  volume = { 15 },
  number = { 4 },
  year = { 2013 },
  address = { Berlin ; Heidelberg [u.a.] },
  issn = { 1433-2787 },
  organization = { 15th International Conference, TACAS 2009, York (UK),
2009-03-22 - 2009-03-29 },
  doi = { 10.1007/s10009-013-0280-3 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-236324 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752289 },
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@conference { KS11,
  author = { Kowalewski, Stefan and Stollenwerk, Andre },
  title = { Supporting Evolving Requirements in CPS by Abstraction Layers
in the Architecture },
  booktitle = { Workshop on Architectures for Cyber-Physical Systems,
Chicago, IL, USA },
  year = { 2011 },
  typ = { PUB:(DE-HGF)5 },
  reportid = { RWTH-CONV-236332 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752309 },
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}

@proceedings { KR10,
  editor = { Kowalewski, Stefan and Roveri, Marco },
  title = { Formal Methods for Industrial Critical Systems : 15th
International Workshop, FMICS 2010, Antwerp, Belgium, September 20-21, 2010.
Proceedings },
  publisher = { Springer Berlin Heidelberg },
  volume = { 6371 },
  series = { Lecture notes in computer science },
  year = { 2010 },
  address = { Berlin, Heidelberg },
  organization = { Formal Methods for Industrial Critical Systems : 15th
International Workshop, Antwerp (Belgium), 2010-09-20 - 2010-09-21 },
  doi = { 10.1007/978-3-642-15898-8 },
  typ = { PUB:(DE-HGF)26 },
  reportid = { RWTH-CONV-236340 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752312 },
}

@inbook { KGG+09,
  author = { Kowalewski, Stefan and Garavello, Mauro and Guéguen, Hervé
and Herberich, Gerlind and Langerak, Rom and Piccoli, Benedetto and Jan,
Willem Polderman and Weise, Carsten },
  title = { Hybrid automata },
  booktitle = { Handbook of hybrid systems control : theory, tools,
applications / edited by Jan Lunze, Françoise Lamnabhi-Lagarrigue },
  publisher = { Cambridge University Press [2009] },
  pages = { 57-86 },
  year = { 2009 },
  address = { Cambridge },
  doi = { 10.1017/CB09780511807930.004 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236342 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752315 },
}

@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 },
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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 },
}

@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 },
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  address = { Wiesbaden },
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@inproceedings { KKR+17,
  author = { Kugler, Christopher and Kowalewski, Stefan and Richenhagen,
Johannes and Maquet, Ralf and Schlo{\ss}er, Axel },
  title = { Metrics-based strategies for quality assurance of automotive
embedded software },
  booktitle = { 17. Internationales Stuttgarter Symposium : Automobil-
und Motorentechnik / herausgegeben von Michael Bargende, Hans-Christian
Reuss, Jochen Wiedemann },
  publisher = { Springer Vieweg },
  pages = { 711-730 },
  series = { Proceedings },
  year = { 2017 },
  address = { Wiesbaden },
  organization = { 17. Internationales Stuttgarter Symposium Automobil-
und Motorentechnik, Stuttgart (Germany), 2017-03-14 - 2017-03-15 },
  doi = { 10.1007/978-3-658-16988-6_56 },
  typ = { PUB:(DE-HGF)7 },
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@inproceedings { KSS+15,
  author = { K{"u}hn, Jan and Schoonbrood, Pierre and Stollenwerk, Andr  
and Brendle, Christian and Wardeh, Markus Nabil and Walter, Marian and
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Roissant, Rolf and Leonhardt, Steffen and Kowalewski, Stefan and Kopp, R{"u}dger },

title = { Safety Conflict Analysis in Medical Cyber-Physical Systems Using an SMT-Solver },

booktitle = { SE-WS 2015, software engineering workshops 2015 : gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2015, Dresden, 17. - 18. M{"a}rz 2015 / hrsg. von Wolg Zimmermann ... },

publisher = { RWTH Aachen },

pages = { 19-23 },

series = { CEUR workshop proceedings },

year = { 2015 },

address = { Aachen, Germany },

organization = { Software Engineering 2015, Dresden (Germany), 2015-03-17 - 2015-03-18 },

typ = { PUB:(DE-HGF)8 },

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@article { KSK+15,

author = { K{"u}hn, Jan and Stollenwerk, André and Kowalewski, Stefan and Brendle, Christian and Walter, Marian and Leonhardt, Steffen and Wardeh, Markus Nabil and Kopp, R{"u}dger and Rossaint, Rolf },

title = { Pulsatile Ansteuerung einer Diagonalblutpumpe },

journal = { Atp-Edition },

publisher = { DIV Dt. Industrieverl. },

pages = { 52-59 },

volume = { 57 },

number = { 10 },

year = { 2015 },

address = { M{"u}nchen },

issn = { 0178-2320 },

typ = { PUB:(DE-HGF)16 },

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<https://www.di-verlag.de/de/Zeitschriften/atp-edition/2015/10/Pulsatile-Ansteuerung-einer-Diagonalblutpumpe> },

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@inproceedings { KWS+15,

author = { K{"u}hn, Jan and W{"u}bbels, Nico and Stollenwerk, André and Kowalewski, Stefan and Brendle, Christian and Walter, Marian and Leonhardt, Steffen and Wardeh, Markus and Kopp, R{"u}dger and Roissant,

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Rolf },
  title = { Pulsatile Ansteuerung einer Diagonalblutpumpe },
  booktitle = { Automation 2015 : benefits of change - the future of
automation ; 16. Branchentreff der Mess- und Automatisierungstechnik ;
Kongresshaus Baden-Baden, 11. und 12. Juni 2015 / VDI/VDE-Gesellschaft Mess-
und Automatisierungstechnik . - Bd. 1 },
  publisher = { VDI Verlag },
  pages = { 325-339 },
  series = { VDI-Berichte },
  year = { 2015 },
  address = { D{"u}sselford },
  organization = { 16. Branchentreff der Mess-und Automatisierungstechnik
Automation 2015, Baden-Baden (Germany), 2015-06-11 - 2015-06-12 },
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and Walter, Marian and Wardeh, Markus Nabil and Kopp, R{"u}dger and
Kowalewski, Stefan },
  title = { Embedded Safety Measures for Extracorporeal Blood Circulation
},
  booktitle = { [Proceedings of the 11th German-Russian-Conference on
Biomedical Engineering, GRC, 17.06.2015-19.06.2015, Aachen, Germany] },
  pages = { 169-170 },
  year = { 2015 },
  organization = { 11th German-Russian-Conference on Biomedical
Engineering, Aachen (Germany), 2015-06-17 - 2015-06-19 },
  typ = { PUB:(DE-HGF)8 },
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@inbook { KSB+16,
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and Janisch, Thorsten and Walter, Marian and Rossaint, Rolf and Leonhardt,
Steffen and Kowalewski, Stefan and Kopp, R{"u}dger },
  title = { Sensor Supervision and Control Value Limitations in Networked
Intensive Care },
  booktitle = { [Gemeinsamer Tagungsband der Workshops der Tagung
Software Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 / Edited
by: Wolf Zimmermann, Lukas Alperowitz, Bernd Br{"u}gge, J{"o}rn Fahsel,
Andrea Herrmann, Anne Hoffmann, Andreas Krall, Dieter Landes, Horst Lichter,
Dirk Riehle, Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer,
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Sibylle Schupp, Andreas Seitz, Andreas Steffens, André Stollenwerk,
R{"u}diger Wei{ss}bach ],
  publisher = { RWTH Aachen },
  pages = { 187-194 },
  volume = { 1559 },
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  year = { 2016 },
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Systems, Wien (Austria), 2016-02-26 - 2016-02-26 },
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Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie des
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@inproceedings { KVS+16,
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Brendle, Christian and Walter, Marian and Leonhardt, Steffen and Kowalewski,
Stefan and Rossaint, Rolf and Kopp, R{"u}dger and Janisch, Thorsten },
  title = { Eingebettete Reizirkulationsmessung f{"u}r eine ECLA-Therapie
},
  booktitle = { AUTOMED 2016 : Workshop : Wismar, 22.-23. September 2016
/ DGBMT - Deutsche Gesellschaft f{"u}r Biomedizinische Technik im VDE ;
Editoren: Prof. Dr.-Ing. habil. Olaf Simanski, Dr. Olaf Hagendorf, J{"o}rg
Zucknik },
  publisher = { Hochschule Wismar, Fakult{"a}t f{"u}r
Ingenieurwissenschaften, Fachgebiet Automatisierungstechnik/Mechatronik },
  pages = { 2 Seiten },
  year = { 2016 },
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  organization = { Automatisierungsverfahren f{"u}r die Medizin 2016,
Wismar (Germany), 2016-09-22 - 2016-09-23 },
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http://automed2016.hs-wismar.de/wp-content/uploads/2017/02/Kuehn_Informatik1
1_RWTHAachen.pdf },
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Lungenunterst{"u}tzung und Beatmung f{"u}r die Therapie des
Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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@article { KBS+17,
  author = { K{"u}hn, Jan and Brendle, Christian and Stollenwerk, André
and Schweigler, Martin and Kowalewski, Stefan and Janisch, Thorsten and
Rossaint, Rolf and Leonhardt, Steffen and Walter, Marian and Kopp,

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R{"u}dger },
  title = { Decentralized safety concept for closed-loop controlled
intensive care : Supervision of a blood pump during extracorporeal
circulation },
  journal = { Biomedizinische Technik },
  publisher = { de Gruyter },
  pages = { 213-224 },
  volume = { 62 },
  number = { 2 },
  year = { 2017 },
  address = { Berlin [u.a.] },
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  doi = { 10.1515/bmt-2016-0087 },
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@inproceedings { KBS+19,
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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 },
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@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
Biomedical Engineering, Aachen (Germany), 2018-09-26 - 2018-09-28 },
  typ = { PUB:(DE-HGF)6 },
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Entwicklung eines vollautomatisierten in vitro Teststands (Mock Loop) - Ein
k{\u}nstlicher Kreislauf als Ersatzmethode zur
Biokompatibilit{\a}tstestung von Membranoxygenatoren und zur
Transplantationssimulation (BMBF-031L0134B) },
}

@inproceedings { KSM15,
  author = { K{\u}hnel, Marián and Smieschek, Manfred and Meyer, Ulrike
},
  title = { Fast Identification of Obfuscation and Mobile Advertising in
Mobile Malware },
  booktitle = { 2015 IEEE Trustcom/BigDataSE/ISPA : 20 - 22 Aug. 2015,
Helsinki, Finland / sponsored by IEEE and IEEE Computer Society, and
endorsed by IEEE Technical Committee on Scalable Computing (TCSC) ... - Vol.
3 },
  publisher = { IEEE },
  pages = { 214-221 },
  year = { 2015 },
  address = { Piscataway, NJ },
  organization = { IEEE International Conference on Trust, Security and
Privacy 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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  cin = { 122810 / 123520 / 120000 },
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@inproceedings { LWW+09,
  author = { Leonhardt, Steffen and Walter, Marian and Wartzek, Tobias
and Kashefi, Ali and Stollenwerk, André and Kopp, R{\u}dger },
  title = { Regelung des Gasaustauschs f{\u}r die extrakorporale
Oxygenierung },
  booktitle = { Automation 2009 : der Automatisierungskongress in
Deutschland ; Kongress Baden-Baden, 16. und 17. Juni 2009 ; [10.
Branchentreff der Mess- und Automatisierungstechnik] / VDI/VDE-Gesellschaft
Mess- und Automatisierungstechnik. - 2067 },
  publisher = { VDI-Verl. },
  pages = { 281-285 },
  series = { VDI-Berichte },
  year = { 2009 },
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@book { Leo17,  
  author = { Leonhardt, Steffen },  
  title = { Special Issue: Smart Life Support },  
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  publisher = { de Gruyter },  
  pages = { 109-233 },  
  volume = { 62 },  
  number = { 2 },  
  year = { 2017 },  
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https://www.degruyter.com/view/j/bmte.2017.62.issue-2/issue-files/bmte.2017.  
62.issue-2.xml },  
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LBK15,  
  author = { Lukas, Mario and Borchers, Jan Oliver and Kowalewski, Stefan  
},  
  title = { FabScan Pi : an open-hardware stand-alone web-enabled 3D  
scanner },  
  school = { Aachen, Techn. Hochsch. },  
  pages = { XXI, 63 S. : Ill., graph. Darst. },  
  year = { 2015 },  
  address = { Aachen },  
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@article { LKT05,  
  author = { Lyons, Michael J. and Kl{"u"}nder, Daniel and Tetsutani,  
Nobuji },  
  title = { Supporting empathy in online learning with artificial  
expressions },  
  journal = { Educational technology & society },  
  publisher = { International Forum of Educational Technology & Society  
},  
  pages = { 22-30 },  
  volume = { 8 },  
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    cin = { 122810 / 120000 },
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MKA17,
    author = { Maczijekski, Janis and Kowalewski, Stefan and Alrifaae,
Bassam },
    title = { Real-time Trajectory Optimization for Autonomous Vehicle
Racing },
    school = { RWTH Aachen University },
    pages = { 68 S. },
    year = { 2017 },
    doi = { 10.18154/RWTH-2017-10352 },
    typ = { PUB:(DE-HGF)2 },
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    cin = { 120000 / 122810 },
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@article { MDA+11,
    author = { Maschuw, Jan P. and Diab, Hilal and Abel, Dirk and
Kowalewski, Stefan },
    title = { Control Design for Generalized Platoon Problems },
    journal = { Automatisierungstechnik : at },
    publisher = { Oldenbourg },
    pages = { 721-729 },
    volume = { 59 },
    number = { 12 },
    year = { 2011 },
    address = { M{"u"}nchen },
    issn = { 0178-2312 },
    doi = { 10.1524/auto2011.0965 },
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    reportid = { RWTH-CONV-043232 },
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@article { MVC+18,
    author = { Merchant, Farhad and Vawani, 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 },
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    url = { http://publications.rwth-aachen.de/record/731326 },
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@inproceedings { MPB+11,
  author = { Merschen, Daniel and Polzer, Andreas and Botterweck,
G{"o"}tz and Kowalewski, Stefan },
  title = { Experiences of Applying Model-based Analysis to Support the
Development of Automotive Software Product Lines },
  booktitle = { VaMoS 11 : fifth International Workshop on Variability
Modelling of Software-intensive Systems ; 27 -29 January, 2011, Namur,
Belgium ; proceedings / Krzysztof Czarnecki ... (eds.) },
  publisher = { ACM },
  pages = { 141-150 },
  year = { 2011 },
  address = { New York, NY },
  doi = { 10.1145/1944892.1944910 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-191093 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/120031 },
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@inproceedings { MDR+12,
  author = { Merschen, Daniel and Duhr, Yves and Ringler, Thomas and
Hedenetz, Bernd and Kowalewski, Stefan },
  title = { Model-Based Analysis of Design Artefacts Applying an
Annotation Concept },
  booktitle = { Proceedings 198 Software Engineering 2012 - Fachtagung
des GI-Fachbereichs Softwaretechnik : 27. Februar - 2. M{"a"}rz 2012 in
Berlin / J{"a"}hnichen, Stefan [Hrsg.] ; K{"u"}pper, Axel [Hrsg.] ;
Albayrak, Sahin [Hrsg.] },
  publisher = { Gesellschaft f{"u"}r Informatik e.V. },
  pages = { 169-180 },
  series = { GI-Edition : Proceedings },
  year = { 2012 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-198213 },
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http://subs.emis.de/LNI/Proceedings/Proceedings198/article6657.html },
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@phdthesis { Mer14,
  author = { Merschen, Daniel },
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title = { Integration und Analyse von Artefakten in der modellbasierten
Entwicklung eingebetteter Software },
publisher = { Shaker },
pages = { XIV, 136 S. : graph. Darst. },
series = { Aachener Informatik-Berichte },
year = { 2014 },
address = { Aachen },
isbn = { 978-3-8440-2601-6 },
typ = { PUB:(DE-HGF)11 },
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@inproceedings { MDH+12,
author = { Merschen, Daniel and Duhr, Yves and Hedenetz, Bernd and
Kowalewski, Stefan },
title = { Evolutionsunterstützung für komplexe, modellbasierte
Software-Produktlinien },
booktitle = { Embedded-Software-Engineering-Kongress (ESE) },
publisher = { ELEKTRONIKPRAXIS und MicroConsult },
pages = { 65-71 },
year = { 2012 },
typ = { PUB:(DE-HGF)7 },
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url = { http://publications.rwth-aachen.de/record/752298 },
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@inproceedings { MGP+13,
author = { Merschen, Daniel and Gleis, Robert and Pott, Julian and
Kowalewski, Stefan },
title = { Analysis of Simulink Models Using Databases and Model
Transformations },
booktitle = { 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 },
publisher = { Springer },
pages = { 69-84 },
series = { Lecture Notes in Computer Science },
year = { 2013 },
address = { Berlin, Heidelberg },
organization = { Model-Based Methodologies for Pervasive and Embedded
Software : 8th International Workshop, Essen (Germany), 2012-09-04 -
2012-09-04 },
doi = { 10.1007/978-3-642-38209-3_5 },
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@inproceedings { MPK12,
  author = { Merschen, Daniel and Pott, Julian and Kowalewski, Stefan },
  title = { Integration and Analysis of Design Artefacts in Embedded
Software Development },
  booktitle = { IEEE 36th Annual Computer Software and Applications
Conference workshops (COMPSACW), 2012 : 16 - 20 July 2012, Izmir, Turkey /
sponsored by IEEE; IEEE Computer Society. Ed.: Xiaoying Bai ... },
  publisher = { IEEE },
  pages = { 503-508 },
  year = { 2012 },
  address = { Piscataway, NJ },
  organization = { IEEE 36th Annual Computer Software and Applications
Conference workshops, Izmir (Turkey), 2012-07-16 - 2012-07-20 },
  doi = { 10.1109/COMPSACW.2012.94 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236330 },
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  url = { http://publications.rwth-aachen.de/record/752306 },
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@phdthesis { Mic12,
  author = { Michailidis, Alexander A. },
  othercontributors = { Kowalewski, Stefan },
  title = { Konzepte f{"u}r eine virtuelle Integration von AUTOSAR-
konformer Fahrzeug-Software in fr{"u}hen Entwicklungsphasen },
  publisher = { Shaker },
  pages = { IX, 178 S. : Ill., graph. Darst. },
  series = { Berichte aus der Informatik },
  year = { 2012 },
  address = { Aachen },
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  typ = { PUB:(DE-HGF)11 },
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@inproceedings { MHR+08,
  author = { Michailidis, Alexander A. and Hedenetz, Bernd and Ringle,
Thomas and Kowalewski, Stefan },
  title = { Virtuelle Integration von vernetzten Funktionen in fr{"u}hen
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  booktitle = { Moderne Elektronik im Kraftfahrzeug III : Systeme von
morgen - technische Innovationen und Entwicklungstrends ; [28. Tagung
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  publisher = { Expert-Verl. },
  pages = { 151-167 },
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year = { 2008 },
address = { Renningen },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-189181 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/117851 },
}

@inproceedings { MSH+10,
  author = { Michailidis, Alexander A. and Spieth, Uwe and Hedenetz,
Bernd and Ringler, Thomas and Kowalewski, Stefan },
  title = { Test Front Loading in Early Stages of Automotive Software
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  booktitle = { 2010 Design, Automation & Test in Europe Conference &
Exhibition : DATE 2010 ; Dresden, Germany, 8 - 12 March 2010 / [European
Design and Automation Association]. - 1 },
  publisher = { IEEE },
  pages = { 435-440 },
  year = { 2010 },
  address = { Piscataway, NJ },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-189182 },
  cin = { 122810 / 120000 },
  url = { http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5457166
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@article { MRH+10,
  author = { Michailidis, Alexander A. and Ringler, Thomas and Hedenetz,
Bernd and Kowalewski, Stefan },
  title = { Virtuelle Integration modellbasierter Fahrzeugfunktionen
unter AUTOSAR },
  journal = { ATZ-Elektronik },
  publisher = { Vieweg },
  pages = { 32-37 },
  volume = { 1 },
  year = { 2010 },
  address = { Wiesbaden },
  issn = { 1862-1791 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-043239 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/165385 },
}

@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,
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Denver, Colorado, USA },
  publisher = { IEEE },
  pages = { 29-38 },
  year = { 2009 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ICSTW.2009.42 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172513 },
  cin = { 122810 / 121310 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99554 },
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@techreport { Mit09,
  author = { Mitsching, Ralf },
  title = { Testing in the Industrial Development Process for Embedded
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  booktitle = { Doctoral Symposium on Systems Software Verification (DS
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  publisher = { RWTH Aachen, Department of Computer Science },
  pages = { 23-25 },
  volume = { 2009,14 },
  number = { AIB-2009-14 },
  series = { Aachener Informatik-Berichte : AIB },
  year = { 2009 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)29 },
  reportid = { RWTH-CONV-009584 },
  cin = { 122810 / 120000 },
  url = { http://aib.informatik.rwth-aachen.de/2009/2009-14.pdf },
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@inproceedings { MWG+10,
  author = { Mitsching, Ralf and Weise, Carsten and Gatterdam, Thomas and
Kowalewski, Stefan },
  title = { Low Effort Evaluation of Real-Time and Reliability
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  booktitle = { 2010 IEEE 10th International Conference on Computer and
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Embedded Software and Systems (ICESS 2010) and the 10th IEEE International
Conference on Scalable Computing and Communications (ScalCom 2010) ;
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  publisher = { IEEE Computer Society },
  pages = { 2433-2440 },
  year = { 2010 },
  doi = { 10.1109/CIT.2010.418 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-190154 },
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@inproceedings { MWK10,
  author = { Mitsching, Ralf and Weise, Carsten and Kowalewski, Stefan },
  title = { Design Patterns for Integrating Variability in Timed Automata },
  booktitle = { Proceedings / 2010 Fourth International Conference on Secure Software Integration and Reliability Improvement : SSIRI 2010 ; 9-11 June 2010, Singapore, Singapore / IEEE },
  publisher = { IEEE },
  pages = { 38-45 },
  year = { 2010 },
  address = { Piscataway, NJ },
  doi = { 10.1109/SSIRI-C.2010.21 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-190358 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/119199 },
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  author = { Mitsching, Ralf and Kowalewski, Stefan },
  title = { Coping with the Variability of Hybrid Models for Automotive Software },
  booktitle = { Proceedings / HYCON & CEmACS Workshop on Automotive Systems and Control, Lund, June 1 2, 2006 },
  publisher = { University Lund, Dept. Automatic Control },
  pages = { 31-38 },
  year = { 2006 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-191092 },
  cin = { 122810 / 120000 },
  url = { http://www.ist-hycon.org/deliverables/HYCON-D4c42.pdf },
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@inproceedings { MWF+11,
  author = { Mitsching, Ralf and Weise, Carsten and Franke, Dominik and Gerlitz, Thomas and Kowalewski, Stefan },
  title = { Coping with Complexity of Testing Models for Real-Time Embedded Systems },
  booktitle = { 2011 Fifth International Conference on Secure Software Integration and Reliability Improvement – Companion : SSIRI-C 2011 ; 27-29 June 2011, Jeju Island, Korea },
  publisher = { IEEE },
  pages = { 128-135 },
  year = { 2011 },
  address = { Los Alamitos },
  doi = { 10.1109/SSIRI-C.2011.27 },
  typ = { PUB:(DE-HGF)8 },
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    cin = { 122810 / 120000 },
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  author = { Mitsching, Ralf and Weise, Carsten and Bohnenkamp, Henrik
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  title = { TripleT: Improving Test Responsiveness for High Performance
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  booktitle = { 2011 IEEE Fourth International Conference on Software
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  pages = { 67-74 },
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  doi = { 10.1109/ICSTW.2011.86 },
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  cin = { 122810 / 120000 },
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  author = { Mitsching, Ralf },
  othercontributors = { Kowalewski, Stefan },
  title = { Applied timed testing: Testautomatisierung in industriellen
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  pages = { 108 S. . Ill., graph. Darst. },
  year = { 2012 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
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  cin = { 100000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/210819 },
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  author = { Murillo, Luis Gabriel and Harnath, Julian and Leupers,
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  title = { Scalable and Retargetable Debugger Architecture for
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  booktitle = { System, Software, SoC and Silicon Debug Conference (S4D),
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  publisher = { IEEE },
  pages = { 45-50 },
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  typ = { PUB:(DE-HGF)8 },
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    cin = { 122810 / 611910 / 120000 },
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  author = { Murillo, Luis Gabriel and Eusse, Juan Fernando and Jovic,
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  title = { Synchronization for Hybrid MPSoC Full-System Simulation },
  booktitle = { 2012 49th ACM/EDAC/IEEE Design Automation Conference (DAC
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  publisher = { IEEE },
  pages = { 121-126 },
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  address = { Piscataway, NJ },
  doi = { 10.1145/2228360.2228383 },
  typ = { PUB:(DE-HGF)8 },
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  cin = { 122810 / 611910 / 080004 / 120000 },
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@article { NHM13,
  author = { Neugebauer, Johannes and Hanrath, Michael and Mitric, Roland
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  title = { Theoretische Chemie 2012 },
  journal = { Nachrichten aus der Chemie },
  publisher = { de Gruyter [u.a.] },
  pages = { 320-329 },
  volume = { 61 },
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  address = { Berlin },
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  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-086856 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/238164 },
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  author = { Noll, Thomas and Schlich, Bastian },
  title = { Delayed nondeterminism in model checking embedded systems
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  pages = { 185-201 },
  volume = { 4899 },
  series = { Lecture notes in computer science },
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doi = { 10.1007/978-3-540-77966-7_16 },
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@inproceedings { NKM+17,
  author = { Nowack, Jan and Kugler, Christopher and Maquet, Ralf and
Richenhagen, Johannes and Remelhe, Filipe },
  title = { Continuous process for the validation of transmission
controls },
  year = { 2017 },
  organization = { 16. CTI Symposium },
  typ = { PUB:(DE-HGF)1 },
  reportid = { RWTH-CONV-236303 },
  cin = { 122810 / 120000 },
  url = {
https://drivetrain-symposium.world/cn/continuous-process-validation-transmis
sion-controls/ },
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@inproceedings { OKK14,
  author = { Obster, Mathias and Kalkov, Igor and Kowalewski, Stefan },
  title = { Development and Execution of PLC Programs on Real-Time
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  booktitle = { 2014 IEEE [International Conference on] Emerging
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  publisher = { IEEE },
  pages = { 8 Seiten },
  year = { 2014 },
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  doi = { 10.1109/ETFA.2014.7005218 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-206433 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/444615 },
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@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
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  publisher = { IEEE },
  pages = { 4 Seiten },
  series = { IEEE International Conference on Emerging Technologies and
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  year = { 2018 },
  address = { [Piscataway, NJ] },
  organization = { 22nd IEEE International Conference on Emerging
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  reportid = { RWTH-2018-223453 },
  cin = { 122810 / 120000 },
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  author = { Oh, Hakjoo and Brutschy, Lucas and Yi, Kwangkeun },
  title = { Access Analysis-based Tight Localization of Abstract Memories
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: 12th international conference, VMCAI 2011, Austin, TX, USA, January 23-25,
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  series = { Lecture notes in computer science },
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  doi = { 10.1007/978-3-642-18275-4_25 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-197962 },
  cin = { 122810 / 121310 / 120000 },
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  pages = { 148-153 },
  year = { 2009 },
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  author = { Palczynski, Jacob and Schlich, Bastian and Kowalewski,
Stefan },
  title = { Eine Evaluationssuite zur schnellen Bewertung von
Matlab/Simulink-Modelcheckern },
  booktitle = { Informatik 2006 : Informatik f{"u"}r Menschen ;
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  publisher = { Ges. f{"u"}r Informatik },
  pages = { 751-755 },
  series = { GI-Edition : Proceedings },
  year = { 2006 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-183701 },
  cin = { 120000 / 122810 },
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@inproceedings { PWM+11,
  author = { Palczynski, Jacob and Weise, Carsten and Moj, Sebastian and
Kowalewski, Stefan },
  title = { Comparing Continuous Behaviour in Model-based Development of
Embedded Software },
  booktitle = { Tagungsband / Dagstuhl-Workshop MBEES (MBEES 2011):
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  publisher = { fortiss },
  pages = { 61-70 },
  year = { 2011 },
  address = { M{"u"}nchen },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196792 },
  cin = { 122810 / 120000 },
  url = {
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  author = { Palczynski, Jacob and Weise, Carsten and Kowalewski, Stefan
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  title = { Testing Continuous Systems Conformance Using Cross
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  booktitle = { Proceedings of the 22nd IFIP International Conference on
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  publisher = { CRIM },
  pages = { 31-36 },
  series = { CRIM : Documentation/Communications },
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  reportid = { RWTH-CONV-196796 },
  cin = { 122810 / 120000 },
  url = {
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}

@inproceedings { PWK+11,
  author = { Palczynski, Jacob and Weise, Carsten and Kowalewski, Stefan and Ulmer, Daniel },
  title = { Estimation of Clock Drift in HiL Testing by Property-Based Conformance Check },
  booktitle = { 2011 IEEE Fourth International Conference on Software Testing, Verification and Validation workshops (ICSTW 2011) : Berlin, Germany, 21 - 25 March 2011 ; [proceedings] / [sponsored by IEEE Computer Society] },
  publisher = { IEEE },
  pages = { 590-595 },
  year = { 2011 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ICSTW.2011.101 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196810 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/126479 },
}

@phdthesis { Pal14,
  author = { Palczynski, Jacob },
  othercontributors = { Kowalewski, Stefan },
  title = { Time continuous behaviour comparison based on abstract models },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  pages = { II-XI, 126 S. },
  series = { Aachener Informatik-Berichte },
  year = { 2014 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-144280 },
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@techreport { PBD+10,  
  author = { Pleuss, A. and Botterweck, G. and Dhungana, D. and Polzer,  
A. and Kowalewski, S. },  
  title = { Featureoriented modelling of product line evolution },  
  pages = { 25 Seiten },  
  year = { 2010 },  
  typ = { PUB:(DE-HGF)29 },  
  reportid = { RWTH-CONV-236309 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/752286 },  
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@article { PBD+12,  
  author = { Pleuss, Andreas and Botterweck, G{"o}tz and Dhungana,  
Deepak and Polzer, Andreas and Kowalewski, Stefan },  
  title = { Model-driven support for product line evolution on feature  
level },  
  journal = { The journal of systems and software : JSS },  
  publisher = { Elsevier [u.a.] },  
  pages = { 2261-2274 },  
  volume = { 85 },  
  number = { 10 },  
  year = { 2012 },  
  address = { Amsterdam },  
  issn = { 0164-1212 },  
  doi = { 10.1016/j.jss.2011.08.008 },  
  typ = { PUB:(DE-HGF)16 },  
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  url = { http://publications.rwth-aachen.de/record/211937 },  
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@inproceedings { PBW+09,  
  author = { Polzer, Andreas and Botterweck, G{"o}tz and Wagnerin, Iris  
and Kowalewski, Stefan },  
  title = { Variabilit{"a}t im modellbasierten Engineering von  
eingebetteten Systemen },  
  booktitle = { Informatik 2009 : im Focus das Leben ; Beitr{"a}ge der  
39. Jahrestagung der Gesellschaft f{"u}r Informatik e.V. (GI), 28.9. -  
2.10.2009 in L{"u}beck / Stefan Fischer ... (Hrsg.) },  
  publisher = { Ges. f{"u}r Informatik },  
  pages = { 331-331 },  
  series = { GI-Edition : Proceedings },  
  year = { 2009 },  
  address = { L{"u}beck, Germany },  
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  reportid = { RWTH-CONV-172392 },  
  cin = { 120000 / 122810 },  
  url = { http://subs.emis.de/LNI/Proceedings/Proceedings154/P-154.pdf },  
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@inproceedings { PKB09,  
  author = { Polzer, Andreas and Kowalewski, Stefan and Botterweck,  
G{"o"}tz },  
  title = { Applying software product line techniques in model-based  
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  booktitle = { 2009 ICSE Workshop on Model-Based Methodologies for  
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Canada ; in conjunction with the 2009 IEEE 31st International Conference on  
Software Engineering (ICSE 2009); May 16-24, 2009 },  
  publisher = { IEEE },  
  pages = { 2-10 },  
  year = { 2009 },  
  address = { Piscataway, NJ },  
  doi = { 10.1109/MOMPES.2009.5069132 },  
  typ = { PUB:(DE-HGF)8 },  
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  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/99427 },  
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@inproceedings { PMT+10,  
  author = { Polzer, Andreas and Merschen, Daniel and Thomas, Jacques and  
Hedenetz, Bernd and Kowalewski, Stefan },  
  title = { View-Supported Rollout and Evolution of Model-Based ECU  
Applications },  
  booktitle = { 7th International Workshop on Model-based Methodologies  
for Pervasive },  
  publisher = { ACM },  
  pages = { 37-44 },  
  year = { 2010 },  
  address = { New York, NY },  
  doi = { 10.1145/1865875.1865881 },  
  typ = { PUB:(DE-HGF)8 },  
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  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/119190 },  
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@article { PMB+11,  
  author = { Polzer, Andreas and Merschen, Daniel and Botterweck,  
G{"o"}tz and Pleuss, Andreas and Thomas, Jacques and Hedenetz, Bernd and  
Kowalewski, Stefan },  
  title = { Managing Complexity and Variability of a Model-based Embedded  
Software Product Line },  
  journal = { Innovations in systems and software engineering },  
  publisher = { Springer },  
  pages = { 1-15 },  
  volume = { 2011 },  
  year = { 2011 },  
  address = { London },  
  issn = { 1614-5054 },
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doi = { 10.1007/s11334-011-0174-z },
typ = { PUB:(DE-HGF)16 },
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cin = { 122810 / 120000 },
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@phdthesis { Pol15,
  author = { Polzer, Andreas },
  othercontributors = { Kowalewski, Stefan and Lichter, Horst },
  title = { Ansatz zur variantenreichen und modellbasierten Entwicklung
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softwaretechnischer Anforderungen },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  school = { Zugl.: Aachen, Techn. Hochsch. },
  series = { Aachener Informatik-Berichte },
  year = { 2015 },
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  typ = { PUB:(DE-HGF)29 },
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  cin = { 122810 / 120000 },
  url = {
http://publications.rwth-aachen.de/record/561326/files/561326.pdf },
}

@article { PMS+13,
  author = { Pomprapa, Anake and Misgeld, Berno and Sorgato, Veronica and
Stollenwerk, André and Walter, Marian and Leonhardt, Steffen },
  title = { Robust Control of End-Tidal CO2 using the H $\infty$  Loop-Shaping
Approach },
  journal = { Acta polytechnica = Journal of advanced engineering },
  publisher = { Univ. },
  pages = { 895-900 },
  volume = { 53 },
  year = { 2013 },
  address = { Prague },
  issn = { 1210-2709 },
  doi = { 10.14311/AP.2013.53.0895 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-080795 },
  cin = { 120000 / 122810 },
  url = {
http://publications.rwth-aachen.de/record/231825/files/231825.pdf },
}

@phdthesis { Pom15,
  author = { Pomprapa, Anake },
  othercontributors = { Leonhardt, Steffen and Kowalewski, Stefan },
  title = { Automatic control of artificial ventilation therapy },
  publisher = { Shaker },
  pages = { XXI, 188 S. : Ill., graph. Darst. },
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series = { Aachener Beitr{"a}ge zur Medizintechnik },
year = { 2015 },
address = { Aachen },
isbn = { 9783844036428 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-CONV-207497 },
cin = { 611010 / 080017 / 122810 },
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http://deposit.d-nb.de/cgi-bin/dokserv?id=5226018&prov=M&dok_var=1&dok_ext=h
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@inproceedings { 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 },
booktitle = { Proceedings of the 11th International Conference on
Bioelectromagnetism : 23-25 May 2018, Aachen, Germany / Organizing Committee
for ICBEM 2018 in Aachen: Prof. Steffen Leonhardt, RWTH Aachen University,
Germany, Prof. Jaakko Malmivuo, Technische Universit{"a}t Berlin, Germany,
Dr. Marian Walter, RWTH Aachen University, Germany, Benjamin Hentze, RWTH
Aachen University, Germany Markus L{"u}ken, RWTH Aachen University, Germany
; Scientific Committee for ICBEM 2018 in Aachen: Prof. Catherine
Disselhorst-Klug, RWTH Aachen University, Germany [und 27 weitere] },
pages = { 4 Seiten },
year = { 2018 },
address = { Aachen },
organization = { 11th International Conference on Bioelectromagnetism,
Aachen (Germany), 2018-05-23 - 2018-05-25 },
doi = { 10.18154/RWTH-CONV-224903 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-224903 },
cin = { 611010 / 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/723536/files/723536.pdf },
}

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@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 },

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    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 },
    url = {
https://www.atsjournals.org/doi/abs/10.1164/ajrccm-conference.2018.197.1_Mee
tingAbstracts.A7449 },
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@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 },
    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 },
}
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@article { PAS+18b,
    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 },
    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 },
    typ = { PUB:(DE-HGF)16 },
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    url = { http://www.ijbem.org/volume20/number1/47-50.pdf },
}
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@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 },  
  publisher = { IEEE },  
  pages = { 546-551 },  
  year = { 2008 },  
  address = { Piscataway, NJ },  
  doi = { 10.1109/MESA.2008.4735653 },  
  typ = { PUB:(DE-HGF)8 },  
  reportid = { RWTH-CONV-172092 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/99089 },  
}
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@inproceedings { RBH+09,  
  author = { Reinbacher, Thomas and Brauer, J{"o}rg and Horauer, Martin  
and Schlich, Bastian },  
  title = { Refining assembly code static analysis for the Intel MCS-51  
microcontroller },  
  booktitle = { 2009 IEEE International Symposium on Industrial Embedded  
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 },  
  typ = { PUB:(DE-HGF)8 },  
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}
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```
@inproceedings { RHS09,  
  author = { Reinbacher, Thomas and Horauer, Martin and Schlich, Bastian  
,  
  title = { Using 3-valued memory representation for state space  
reduction in embedded assembly code model checking },  
  booktitle = { Proceedings of the 2009 IEEE Symposium on Design and  
Diagnostics of Electronic Circuits and Systems : April 15-17, 2009, Liberec,  
Czech Republic / M. Renovell; IEEE Computer Society ... },  
  publisher = { IEEE },  
  pages = { 114-119 },  
  year = { 2009 },  
  address = { Piscataway, N.J. ],  
  doi = { 10.1109/DDECS.2009.5012109 },  
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    reportid = { RWTH-CONV-172518 },
    cin = { 122810 / 120000 },
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}

@inproceedings { RKH+08a,
    author = { Reinbacher, Thomas and Kramer, Michael and Horauer, Martin
and Schlich, Bastian },
    title = { Challenges in embedded model checking : a simulator for the
[mc]square model checker },
    booktitle = { 2008 International Symposium on Industrial Embedded
Systems : [SIES'2008] ; La Grande Motte, France, 11 - 13 June 2008 / IEEE },
    publisher = { IEEE },
    pages = { 245-248 },
    year = { 2008 },
    address = { Piscataway, NJ },
    doi = { 10.1109/SIES.2008.4577709 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-172528 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/99569 },
}

@inproceedings { RBS+11,
    author = { Reinbacher, Thomas and Brauer, Jörg and Schachinger,
Daniel and Steininger, Andreas and Kowalewski, Stefan },
    title = { Automated Test-Trace Inspection for Microcontroller Binary
Code },
    booktitle = { Runtime Verification : Second International Conference,
RV 2011, San Francisco, CA, USA, September 27-30, 2011, Revised Selected
Papers / edited by Sarfraz Khurshid, Koushik Sen },
    publisher = { Springer },
    pages = { 239-244 },
    series = { Lecture notes in computer science },
    year = { 2011 },
    address = { Berlin ; Heidelberg },
    doi = { 10.1007/978-3-642-29860-8_18 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-194496 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/123647 },
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@inproceedings { RBH+11,
    author = { Reinbacher, Thomas and Brauer, Jörg and Horauer, Martin
and Steininger, Andreas and Kowalewski, Stefan },
    title = { Past Time LTL Runtime Verification for Microcontroller Binary
Code },
    booktitle = { Formal methods for industrial critical systems : 16th
international workshop, FMICS 2011, Trento, Italy, August 29 - 30, 2011 ;
proceedings / Gwen Salaün; Bernhard Schötz (eds.) },
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publisher = { Springer },
pages = { 37-51 },
series = { Lecture notes in computer science },
year = { 2011 },
address = { Heidelberg [u.a.] },
doi = { 10.1007/978-3-642-24431-5 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-194606 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/123834 },
}

@inproceedings { RSM+11,
  author = { Reinbacher, Thomas and Steininger, Andreas and M{"u"}ller,
Tobias and Horauer, Martin and Brauer, J{"o"}rg and Kowalewski, Stefan },
  title = { Hardware Support for Efficient Testing of Embedded Software
},
  booktitle = { Proceedings of the ASME International Design Engineering
Technical Conferences and Computers and Information in Engineering
Conference - 2011 : presented at ASME 2011 International Design Engineering
Technical Conferences and Computers and Information in Engineering
Conference, August 28 - 31, 2011, Washington, D.C. / sponsored by the Design
Engineering Division, ASME; the Computers and Information in Engineering
Division, ASME. - Vol. 3: ASME/IEEE International Conference on Mechatronic
and Embedded Systems and Applications, Pt. A },
  publisher = { ASME },
  pages = { 3-12 },
  year = { 2011 },
  address = { New York, NY },
  doi = { 10.1115/DETC2011-47139 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-195986 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/125522 },
}

@inproceedings { RBH+10,
  author = { Reinbacher, Thomas and Brauer, J{"o"}rg and Horauer, Martin
and Steininger, Andreas and Kowalewski, Stefan },
  title = { Test-Case Generation for Embedded Binary Code Using Abstract
Interpretation },
  booktitle = { Sixth Doctoral Workshop on Mathematical and Engineering
Methods in Computer Science (Selected Papers) (MEMICS 2010) [Elektronische
Ressource] / Hrsg.: Ludek Matyska ; Michal Kozubek ; Tomáš Vojnar ; Pavel
Zemcík ; David Antos },
  publisher = { Schloss Dagstuhl - Leibniz-Zentrum f{"u"}r Informatik },
  pages = { 101-108 },
  series = { OASICS - OpenAccess Series in Informatics },
  year = { 2010 },
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    reportid = { RWTH-CONV-196795 },
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@inproceedings { RB11,
    author = { Reinbacher, Thomas and Brauer, J{"o}rg },
    title = { Precise Control Flow Reconstruction Using Boolean Logic },
    booktitle = { EMSOFT '11 : Proceedings of the ninth ACM international
conference on Embedded software ; October 9-14, 2011, Taipei, Taiwan },
    publisher = { ACM },
    pages = { 117-126 },
    year = { 2011 },
    address = { New York, NY },
    doi = { 10.1145/2038642.2038662 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-198496 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/128379 },
}

@inproceedings { RGH+11,
    author = { Reinbacher, Thomas and G{"u}ckel, Dominique and Horauer,
Martin and Kowalewski, Stefan },
    title = { Testing Microcontroller Software Simulators },
    booktitle = { INFORMATIK 2011 : Informatik schafft Communities ;
Beitr{"a"}ge der 41. Jahrestagung der Gesellschaft f{"u"}r Informatik e.V.
(GI) 4.-7.10.2011 in Berlin / Hans-Ulrich Hei{"ss"}, Peter Pepper,Holger
Schlingloff, J{"o"}rg Schneider (Hrsg.) },
    publisher = { Ges. f{"u"}r Informatik },
    pages = { 15 S. },
    series = { GI-Edition : Lecture Notes in Informatics : Proceedings },
    year = { 2011 },
    address = { Bonn },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-198689 },
    cin = { 120000 / 122810 },
    url = { http://www.user.tu-berlin.de/komm/CD/paper/061433.pdf },
}

@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 },
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address = { Piscataway, NJ },
doi = { 10.1109/EM-COM.2009.5402986 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-199048 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/129021 },
}

@article { RHS+11,
  author = { Reinbacher, Thomas and Horauer, Martin and Schlich, Bastian
and Brauer, J{\\"o}rg and Scheuer, Florian },
  title = { Model checking embedded software of an industrial knitting
machine },
  journal = { International journal of information technology,
communications and convergence },
  publisher = { Inderscience Publishers },
  pages = { 186-205 },
  volume = { 1 },
  number = { 2 },
  year = { 2011 },
  address = { Geneva },
  issn = { 2042-3217 },
  doi = { 10.1504/IJITCC.2011.039285 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-052838 },
  cin = { 122810 / 120000 },
  url = { http://www.inderscience.com/IJITCC },
}

@article { RBH+14,
  author = { Reinbacher, Thomas and Brauer, J{\\"o}rg and Horauer, Martin
and Steininger, Andreas and Kowalewski, Stefan },
  title = { Runtime verification of microcontroller binary code },
  journal = { Science of computer programming },
  publisher = { Elsevier },
  pages = { 109-129 },
  volume = { 80 },
  year = { 2014 },
  address = { Amsterdam },
  issn = { 0167-6423 },
  doi = { 10.1016/j.scico.2012.10.015 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-080463 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/231479 },
}

@article { RFB14,
  author = { Reinbacher, Thomas and Fuegger, Matthias and Brauer,
J{\\"o}rg },
  title = { Runtime verification of embedded real-time systems },
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    journal = { Formal methods in system design },
    publisher = { Springer Science + Business Media B.V },
    pages = { 203-239 },
    volume = { 44 },
    number = { 3 },
    year = { 2014 },
    address = { Dordrecht },
    issn = { 0925-9856 },
    doi = { 10.1007/s10703-013-0199-z },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-089599 },
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    url = { http://publications.rwth-aachen.de/record/446689 },
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@phdthesis { Rek13,
    author = { Reke, Michael },
    othercontributors = { Kowalewski, Stefan },
    title = { Modellbasierte Entwicklung automobiler Steuerungssysteme in
kleinen und mittelst{\a}ndischen Unternehmen },
    publisher = { Shaker },
    pages = { IX, 171 S. : Ill., graph. Darst. },
    series = { Aachener Informatik-Berichte },
    year = { 2013 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-143805 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/211920/files/4545.pdf
},
}

@phdthesis { Rek13a,
    author = { Reke, Michael },
    title = { Modellbasierte Entwicklung automobiler Steuerungssysteme in
kleinen und mittelst{\a}ndischen Unternehmen = Model-based development of
automotive control systems in small and medium enterprises },
    year = { 2013 },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-236322 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752297 },
}

@inproceedings { RKH+12,
    author = { Reuter, Sebastian and Kowalewski, Stefan and Hauck, Eckart
and Diab, Hilal and Jeschke, Sabina },
    title = { Design and implementation of a vehicle dynamics control
system by means of torque vectoring for an autonomous vehicle },
    booktitle = { 2012 IEEE International Conference on Robotics and
Biomimetics (ROBIO 2012) : Guangzhou, China, 11 - 14 December 2012 /

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[sponsored by IEEE Robotics and Automation Society (RAS) ...] },
  publisher = { IEEE },
  pages = { 1691-1696 },
  year = { 2012 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ROBIO.2012.6491211 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-203323 },
  cin = { 122810 / 416910 },
  url = { http://publications.rwth-aachen.de/record/225742 },
}

@phdthesis { Ric14,
  author = { Richenhagen, Johannes Martin },
  othercontributors = { Pischinger, Stefan and Kowalewski, Stefan },
  title = { Entwicklung von Steuerungs-Software f{"u}r den automobilen
Antriebsstrang mit agilen Methoden },
  pages = { X, 197 S. : Ill., graph. Darst. },
  year = { 2014 },
  address = { Aachen },
  typ = { PUB:(DE-HGF)11 },
  reportid = { RWTH-CONV-207105 },
  cin = { 412310 / 122810 },
  url = { http://publications.rwth-aachen.de/record/465563 },
}

@inbook { SK07,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Achieving highly reliable embedded software : an empirical
evaluation of different approaches },
  booktitle = { Computer safety, reliability, and security : 26th
International Conference, SAFECOMP 2007, Nuremberg, Germany, September
18-21, 2007 ; proceedings / Francesca Saglietti ; Norbert Oster (Eds.) },
  publisher = { Springer },
  pages = { 270-275 },
  volume = { 4680 },
  series = { Lecture notes in computer science },
  year = { 2007 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-540-75101-4_26 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-101607 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/90177 },
}

@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
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Electronics : [ISIE 2008] ; Cambridge, United Kingdom, 30 June - 2 July 2008. - Vol. 4 },

publisher = { IEEE },
pages = { 2009-2015 },
year = { 2008 },
address = { Piscataway, NJ },
doi = { 10.1109/ISIE.2008.4677068 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-171801 },
cin = { 122810 / 120000 },
url = { <http://publications.rwth-aachen.de/record/98745> },

}

@inproceedings { SK08,

author = { Salewski, Falk and Kowalewski, Stefan },
title = { The effect of real-time software reuse in FPGAs and
microcontrollers with respect to software faults },
booktitle = { 2008 International Symposium on Industrial Embedded
Systems : [SIES'2008] ; La Grande Motte, France, 11 - 13 June 2008 / IEEE },
publisher = { IEEE },
pages = { 141-148 },
year = { 2008 },
address = { Piscataway, NJ },
doi = { 10.1109/SIES.2008.4577692 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-171803 },
cin = { 122810 / 120000 },
url = { <http://publications.rwth-aachen.de/record/98747> },

}

@inproceedings { SK05,

author = { Salewski, Falk and Kowalewski, Stefan },
title = { Zuverl{\a}ssigkeitsmechanismen f{\u}r Eingebettete Systeme
,
booktitle = { Zuverl{\a}ssigkeit in eingebetteten Systemen : Ada
Deutschland Tagung 2005, 13. und 14. Oktober 2005, Rheinische-
Westf{\a}lische Technische Hochschule Aachen / Veranst.: Gesellschaft
f{\u}r Informatik, Fachgruppe Ada Deutschland ... Hubert B. Keller ...
(Hrsg.) },
publisher = { Shaker },
pages = { 39-51 },
series = { Ada-Deutschland-Tagung ... },
year = { 2005 },
address = { Aachen },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-182396 },
cin = { 122810 / 120000 },
url = { <http://publications.rwth-aachen.de/record/110357> },

}

@inproceedings { SWK06,

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    author = { Salewski, Falk and Wilking, Dirk and Kowalewski, Stefan },
    title = { The effect of diverse hardware platforms on n-version
programming in embedded systems : an empirical evaluation },
    booktitle = { 3rd Workshop on Dependable Embedded Sytems : the workshop
was held on October 1st, 2006 at the University of Leeds ; Final Proceedings
- November 16th / Ed. by Raimund Kirner ... },
    publisher = { University of Technology, Real-Time Systems Group },
    pages = { 61-66 },
    series = { Vienna University of Technology : Technical Report },
    year = { 2006 },
    address = { Vienna },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-183689 },
    cin = { 120000 / 122810 },
    url = { http://publications.rwth-aachen.de/record/111741 },
}
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@inproceedings { SK06,
    author = { Salewski, Falk and Kowalewski, Stefan },
    title = { Exploring the differences of FPGAs and microcontrollers for
their use in safety-critical embedded applications },
    booktitle = { 2006 International Symposium on Industrial Embedded
Systems : Antibes Juan-Les-Pins, France, 18 - 20 October 2006 / IEEE },
    publisher = { IEEE Service Center },
    year = { 2006 },
    address = { Piscataway, NJ },
    doi = { 10.1109/IES.2006.357483 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-185313 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/113553 },
}
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@inproceedings { ST07,
    author = { Salewski, Falk and Taylor, Adam },
    title = { Fault handling in FPGAs and microcontrollers in safety-
critical embedded applications : a comparative survey },
    booktitle = { Proceedings / 10th Euromicro Conference on Digital System
Design: Architectures, Methods and Tools : DSD 2007 ; 29 - 31 August 2007,
L{"u"}beck, Germany / European Organisation for Information Technology and
Microelectronics. ed. by Hana Kubátová },
    publisher = { IEEE Computer Soc. },
    pages = { 124-131 },
    year = { 2007 },
    address = { Los Alamitos, Calif. [u.a.] },
    doi = { 10.1109/DSD.2007.4341459 },
    typ = { PUB:(DE-HGF)8 },
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    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/117068 },
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@inproceedings { SK07a,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Testing Issues in Empirical Reliability Evaluation of
Embedded Real-Time Systems },
  booktitle = { Proceedings Work-in-Progress-Session of the 13th Real
Time and Embedded Technology and Applications Symposium : 3-6 April, 2007,
Bellevue, Washington / ed. by Chenyang Lu },
  pages = { 48-51 },
  series = { Technical Report WUCSE },
  year = { 2007 },
  address = { [s.l.] },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188513 },
  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/117072 },
}

@inproceedings { SK07b,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { The effect of hardware platform selection on safety-critical
software in embedded systems : empirical evaluations },
  booktitle = { 2007 International Symposium on Industrial Embedded
Systems : Costa da Caparica, [Lisbon], Portugal, 4 - 6 July 2007 ;
[SIES'2007] / IEEE / IEEE Computer Society Press },
  publisher = { IEEE },
  pages = { 78-85 },
  year = { 2007 },
  address = { Piscataway, NJ },
  doi = { 10.1109/SIES.2007.4297320 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188516 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/117075 },
}

@article { SK08a,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Hardware/software design considerations for automotive
embedded systems },
  journal = { IEEE transactions on industrial informatics },
  publisher = { IEEE },
  pages = { 156-163 },
  volume = { 4 },
  number = { 3 },
  year = { 2008 },
  address = { New York, NY },
  issn = { 1551-3203 },
  doi = { 10.1109/TII.2008.2002919 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-012502 },
  cin = { 122810 / 120000 },
}
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url = { http://publications.rwth-aachen.de/record/131366 },
}

@article { SK05a,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Zuverl{"a}ssigkeitsmechanismen f{"u}r Eingebettete Systeme
: Kurzfassung des Vortrags vom Workshop Zuverl{"a}ssigkeit in eingebetteten
Systemen },
  journal = { Softwaretechnik-Trends },
  publisher = { K{"o"}llen },
  volume = { 25 },
  number = { 4 },
  year = { 2005 },
  address = { Bonn },
  issn = { 0720-8928 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-029262 },
  cin = { 122810 / 120000 },
  url = {
http://pi.informatik.uni-siegen.de/stt/25\_4/01\_Fachgruppenberichte/Ada/03\_Sa
lewski\_Kowalewski.pdf },
}

@article { SK07c,
  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Hardware platform design decisions in embedded systems : a
systematic teaching approach },
  journal = { ACM SIGBED review },
  publisher = { Association for Computing Machinery },
  pages = { 27-35 },
  volume = { 4 },
  number = { 1 },
  year = { 2007 },
  address = { New York, NY },
  issn = { 1551-3688 },
  doi = { 10.1145/1217809.1217814 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-038217 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/160044 },
}

@article { SWK05,
  author = { Salewski, Falk and Wilking, Dirk and Kowalewski, Stefan },
  title = { Diverse hardware platforms in embedded systems lab courses: A
way to teach the differences },
  journal = { ACM SIGBED review },
  publisher = { Association for Computing Machinery },
  pages = { 70-74 },
  volume = { 2 },
  number = { 4 },
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    year = { 2005 },
    address = { New York, NY },
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    doi = { 10.1145/1121812.1121825 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-038218 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/160045 },
}

@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 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-145380 },
    cin = { 120000 / 122810 },
    url = {
http://publications.rwth-aachen.de/record/459474/files/Salewski_Falk.pdf },
}

@inproceedings { SLA+10,
    author = { Sasnauskas, R. and Landsiedel, O. and Alizai, M. and Weise,
C. and Kowalewski, S. and Wehrle, K. },
    title = { KleeNet: discovering insidious interaction bugs in wireless
sensor networks before deployment },
    booktitle = { Proceedings of the 9th ACM/IEEE International Conference
on Information Processing in Sensor Networks },
    publisher = { ACM },
    pages = { 186--196 },
    year = { 2010 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-236310 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752287 },
}

@inproceedings { SSK+11,
    author = { Sasnauskas, Raimondas and Soria Dustmann, Oscar and
Kaminski, Benjamin Lucien and Wehrle, Klaus and Weise, Carsten and
Kowalewski, Stefan },
    title = { Scalable symbolic execution of distributed systems },
    booktitle = { 2011 31st International Conference on Distributed
Computing Systems, (ICDCS 2011) : Minneapolis, Minnesota, USA, 20 - 24 June
2011 / IEEE. [Sponsored by IEEE Computer Society Technical Committee on
Distributed Processing. David Hung-Chang Du, general chair] },
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publisher = { IEEE },
pages = { 333-342 },
year = { 2011 },
address = { Piscataway, NJ },
doi = { 10.1109/ICDCS.2011.28 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-196998 },
cin = { 121710 / 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/126707 },
}

SDK13,
author = { Schellen, Johannes and Dernehl, Christian and Kowalewski,
Stefan },
title = { Optimizing Image Processing on OMAP3 with driver-level frame
buering and color space conversion },
publisher = { IMAV },
pages = { 1-8 },
year = { 2013 },
organization = { International Micro Air Vehicle Conference and Flight
Competition },
typ = { PUB:(DE-HGF)35 },
reportid = { RWTH-CONV-204138 },
cin = { 120000 / 122810 },
url = { http://www.youtube.com/watch?v=4HUwtUy-mFc },
}

@inproceedings { SSS16,
author = { Schlaefer, Alexander and Schupp, Sibylle and Stollenwerk,
André },
title = { FS-MCPS: 2nd Workshop on Fail Safety in Medical Cyber-
Physical Systems },
booktitle = { Software Engineering 2016 : 23. - 26. Februar 2016, Wien,
{"0"}sterreich / Jens Knoop ; Uwe Zdun (Hrsg.) },
publisher = { Gesellschaft f{"u"}r Informatik },
pages = { 127-128 },
series = { GI-Edition : lecture notes in informatics },
year = { 2016 },
address = { Bonn },
organization = { Software Engineering 2016, Wien (Austria), 2016-02-23
- 2016-02-26 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-207904 },
cin = { 122810 / 120000 / 080017 },
url = { http://publications.rwth-aachen.de/record/573824 },
}

@inproceedings { SSS16a,
author = { Schlaefer, Alexander and Schupp, Sibylle and Stollenwerk,
André },
title = { 2nd Workshop on Fail Safety in Medical Cyber-Physical Systems
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    booktitle = { Gemeinsamer Tagungsband der Workshops der Tagung Software
Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 / Edited by: Wolf
Zimmermann, Lukas Alperowitz, Bernd Br{"u}gge, J{"o"}rn Fahsel, Andrea
Herrmann, Anne Hoffmann, Andreas Krall, Dieter Landes, Horst Lichter, Dirk
Riehle, Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer, Sibylle
Schupp, Andreas Seitz, Andreas Steffens, Andr{e} Stollenwerk, R{"u"}diger
Wei{\ss}bach },
    publisher = { RWTH Aachen },
    pages = { 172-173 },
    series = { CEUR Workshop Proceedings },
    year = { 2016 },
    address = { Aachen, Germany },
    organization = { 2nd Workshop on Fail Safety in Medical Cyber-Physical
Systems, Wien (Austria), 2016-02-23 - 2016-02-26 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-211642 },
    cin = { 122810 / 120000 / 080017 },
    url = { http://ceur-ws.org/Vol-1559/paper22.pdf },
}

@techreport { SRW+06,
    author = { Schlich, Bastian and Rohrbach, Michael and Weber, Michael
and Kowalewski, Stefan },
    title = { Model checking software for microcontrollers },
    pages = { 33 Bl. : graph. Darst. },
    volume = { 2006,11 },
    number = { AIB-2006-11 },
    series = { Achener Informatik-Berichte },
    year = { 2006 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)29 },
    reportid = { RWTH-CONV-008343 },
    cin = { 122810 / 120000 },
    url = { http://webdoc.sub.gwdg.de/ebook/serien/ah/AIB/2006-11.pdf },
}

@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 = { Achener Informatik-Berichte },
    year = { 2008 },
    address = { Aachen },
    typ = { PUB:(DE-HGF)11 },
    reportid = { RWTH-CONV-125168 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/63747/files/Schlich_Bastian.pdf },

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@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 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-095398 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/83462 },
}

@inbook { SK04,
  author = { Schlich, Bastian and Kowalewski, Stefan },
  title = { C Model Checker: Eine {"U"}bersicht },
  year = { 2004 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-101608 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/90178 },
}

@inproceedings { SGK08,
  author = { Schlich, Bastian and G{"u"}ckel, Dominique and Kowalewski,
Stefan },
  title = { Modeling the environment of microcontrollers to tackle the
state-explosion problem in model checking },
  booktitle = { 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.) },
  publisher = { L Harmattan },
  year = { 2008 },
  address = { Budapest },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-171805 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/98749 },
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@inproceedings { SKW09,
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author = { Schlich, Bastian and Kowalewski, Stefan and Wernerus,
J{"o"}rg },
title = { Verifikation von SPS-Programmen in AWL mit Hilfe von direktem
Model-Checking },
booktitle = { Automation 2009 : der Automatisierungskongress in
Deutschland ; Kongress Baden-Baden, 16. und 17. Juni 2009 ; [10.
Branchentreff der Mess- und Automatisierungstechnik] / VDI/VDE-Gesellschaft
Mess- und Automatisierungstechnik. - 2067 },
publisher = { VDI-Verl. },
pages = { 13-16 },
series = { VDI-Berichte },
year = { 2009 },
address = { D{"u"}sseldorf },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-172091 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/99088 },
}
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@techreport { SK05b,
author = { Schlich, Bastian and Kowalewski, Stefan },
title = { Model checking C source code for embedded systems },
booktitle = { IEEE/NASA Workshop on Leveraging Applications of Formal
Methods, Verification, and Validation : IEEE/NASA ISoLA 2005 ; proceedings
of a workshop held at the Loyola College Graduate Center, Columbia,
Maryland, USA, 23 - 24 September 2005 ; with a special track on the theme of
formal methods in human and robotic space exploration / National Aeronautics
and Space Administration, Goddard Space Flight Center. Ed.: Tiziana Margaria
... },
pages = { 65-77 },
number = { NASA/CP-2005-212788 },
year = { 2005 },
address = { [S.l.] },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-009447 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/111740 },
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@inproceedings { SNB+11,
author = { Schlich, Bastian and Noll, Thomas and Brauer, J{"o"}rg and
Brutschy, Lucas },
title = { Reduction of Interrupt Handler Executions for Model Checking
Embedded Software },
booktitle = { Hardware and software: verification and testing : 5th
International Haifa Verification Conference, HCV 2009, Haifa, Israel,
October 19-22, 2009 : revised selected papers / Kedar Namjoshi ... (eds.) },
publisher = { Springer },
series = { Lecture Notes in Computer Science },
year = { 2011 },
address = { Heidelberg [u.a.] },
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doi = { 10.1007/978-3-642-19237-1_5 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-187757 },
cin = { 122810 / 121310 / 120000 },
url = { http://publications.rwth-aachen.de/record/116214 },
}

@inproceedings { SK07d,
  author = { Schlich, Bastian and Kowalewski, Stefan },
  title = { An extendable architecture for model checking hardware-
specific automotive microcontroller code },
  booktitle = { FORMS/FORMAT 2007 - 6th symposium : formal methods for
automation and safety in railway and automotive systems ; proceedings of
Symposium FORMS/FORMAT 2007, Braunschweig, Germany, 25th and 26th January,
2007 / Eckehard Schnieder; Géza Tarnai (Eds.) },
  publisher = { GZVB },
  pages = { 202-212 },
  year = { 2007 },
  address = { Braunschweig },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188508 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/117067 },
}

@inproceedings { SSK07,
  author = { Schlich, Bastian and Salewski, Falk and Kowalewski, Stefan
},
  title = { Applying model checking to an automotive microcontroller
application },
  booktitle = { 2007 International Symposium on Industrial Embedded
Systems : Costa da Caparica, [Lisbon], Portugal, 4 - 6 July 2007 ;
[SIES'2007] / IEEE / IEEE Computer Society Press },
  publisher = { IEEE },
  pages = { 209-216 },
  year = { 2007 },
  address = { Piscataway, NJ },
  doi = { 10.1109/SIES.2007.4297337 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-188512 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/117071 },
}

@inproceedings { SK06a,
  author = { Schlich, Bastian and Kowalewski, Stefan },
  title = { [mc]square: A model checker for microcontroller code },
  booktitle = { ISoLA 2006 : Second International Symposium on Leveraging
Applications of Formal Methods, Verification and Validation ; 15 - 19
November 2006, Paphos, Cyprus / IEEE Computer SocietyLeveraging Applications
of Formal Methods, Verification and Validation (ISoLA 2006) },
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publisher = { IEEE Computer Society Press },
pages = { 466-473 },
year = { 2006 },
address = { Paphos, Cyprus },
doi = { 10.1109/ISoLA.2006.62 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-188517 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/117076 },
}

@article { SK09,
author = { Schlich, Bastian and Kowalewski, Stefan },
title = { Model checking C source code for embedded systems },
journal = { International journal on software tools for technology
transfer : STTT },
publisher = { Springer },
pages = { 187-202 },
volume = { 11 },
number = { 3 },
year = { 2009 },
address = { Berlin [u.a.] },
issn = { 1433-2779 },
doi = { 10.1007/s10009-009-0106-5 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-013187 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/132064 },
}

@article { Sch10,
author = { Schlich, Bastian },
title = { Model Checking of Software for Microcontrollers },
journal = { ACM transactions on embedded computing systems : TECS },
publisher = { ACM Press },
pages = { 27 S. },
volume = { 9 },
number = { 4 },
year = { 2010 },
address = { New York, NY },
issn = { 1539-9087 },
doi = { 10.1145/1721695.1721702 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-047530 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/169982 },
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@article { SBK11,
author = { Schlich, Bastian and Brauer, Jörg and Kowalewski, Stefan
},
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title = { Application of Static Analyses for State-Space Reduction to
the Microcontroller Binary Code },
journal = { Science of computer programming },
publisher = { Elsevier },
pages = { 100-118 },
volume = { 76 },
number = { 2 },
year = { 2011 },
address = { Amsterdam [u.a.] },
issn = { 0167-6423 },
doi = { 10.1016/j.scico.2010.03.006 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-062661 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/186222 },
}

@inproceedings { SBW+09,
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} },
booktitle = { Dependable Control of Discrete Systems (DCDS'09), Bari,
Italy },
pages = { 28-33 },
year = { 2009 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-CONV-236337 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752318 },
}

@inproceedings { SPD+17,
author = { Schmidt, Teresa and Philipsen, Ralf and Dzafic, Dzenan and
Ziefle, Martina },
title = { Watch Out! : User-Centered Feedback Design for a V2X-
Smartphone App },
booktitle = { 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
},
publisher = { Springer International Publishing },
pages = { 365-383 },
series = { Lecture Notes in Computer Science },
year = { 2017 },
address = { Cham },
organization = { 19th International Conference on Human-Computer
Interaction, Vancouver (Canada), 2017-07-09 - 2017-07-14 },
doi = { 10.1007/978-3-319-58466-9_33 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2018-222740 },
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    cin = { 792310 / 080013 / 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/720296 },
}

@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 },
  pages = { 257-271 },
  series = { GI-Edition : Proceedings },
  year = { 2008 },
  address = { Bonn },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-170551 },
  cin = { 120000 / 122810 / 121810 / 416610 },
  url = { http://publications.rwth-aachen.de/record/97321 },
}

@inproceedings { SZR+09,
  author = { Schmitz, Dominik and Zhang, Ming and Rose, Thomas and Jarke,
Matthias and Polzer, Andreas and Palczynski, Jacob and Kowalewski, Stefan
and Reke, Michael },
  title = { Mapping Requirement Models to Mathematical Models in Control
System Development },
  booktitle = { Model driven architecture - foundations and applications
: 5th European conference, ECMDA-FA 2009, Enschede, The Netherlands, June 23
- 26, 2009 ; proceedings / Richard F. Paige; Alan Hartman; Arend Rensink
(eds.) },
  publisher = { Springer },
  series = { Lecture notes in computer science },
  year = { 2009 },
  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-642-02674-4_18 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172397 },
  cin = { 122810 / 121810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/99431 },
}

@phdthesis { Sch19,
  author = { Schommer, John },
  othercontributors = { Kowalewski, Stefan and Rumpe, Bernhard },
  title = { Adaptierung des Zeitverhaltens nicht-echtzeitf{"a"}higer
Software f{"u}r den Einsatz in zeitheterogenen Netzwerken },
  school = { RWTH Aachen University },
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pages = { 1 Online-Ressource (xv, 177 Seiten) : Illustrationen,
Diagramme },
series = { Aachener Informatik-Berichte },
year = { 2019 },
address = { Aachen },
doi = { 10.18154/RWTH-2020-05324 },
typ = { PUB:(DE-HGF)11 },
reportid = { RWTH-2020-05324 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/789625/files/789625.pdf },
}

@inproceedings { SFK+09,
author = { Schommer, John F. and Franke, Dominik and Kowalewski, Stefan
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,
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publisher = { Curran },
pages = { 51-60 },
series = { ACM international conference proceedings series },
year = { 2009 },
address = { Red Hook, NY },
doi = { 10.1145/1620405.1620413 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-172370 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/99404 },
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@inproceedings { SFL+12,
author = { Schommer, John F. and Franke, Dominik and Lange, Tim and
Kowalewski, Stefan },
title = { Load Balancing for Cross Layer Communication },
booktitle = { 2012 IEEE 36th Annual Computer Software and Applications
Conference workshops (COMPSACW 2012) : Izmir, Turkey, 16 - 20 July 2012 /
[sponsored by IEEE; IEEE Computer Society. Ed.: Xiaoying Bai ...] },
publisher = { IEEE },
pages = { 476-481 },
year = { 2012 },
address = { Piscataway, NJ },
doi = { 10.1109/COMPSACW.2012.90 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-204446 },
cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/227070 },
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@inproceedings { SGK13,  
    author = { Schommer, John F. and Gerlitz, Thomas and Kowalewski, Stefan  
},  
    title = { Load and Quality Cooperation for Distributed Embedded Systems  
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    booktitle = { Proceedings of the 7th Junior Researcher Workshop on  
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    pages = { 45-48 },  
    year = { 2013 },  
    address = { Sophia Antipolis, France },  
    typ = { PUB:(DE-HGF)8 },  
    reportid = { RWTH-CONV-204855 },  
    cin = { 120000 / 122810 },  
    url = { http://jrwrtc.science.uva.nl/JRWRTC13\_proceedings.pdf },  
}
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SBK13,  
    author = { Schoonbrood, Pierre and Borchers, Jan Oliver and Kowalewski,  
Stefan },  
    title = { PowerSocket: Implementation of a Small-Scale Power  
Consumption Measurement Platform },  
    year = { 2013 },  
    typ = { PUB:(DE-HGF)2 },  
    reportid = { RWTH-2016-10433 },  
    cin = { 122710 / 120000 / 122810 },  
    url = {  
http://hci.rwth-aachen.de/materials/publications/schoonbrood2013.pdf },  
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@inproceedings { SWL+12,  
    author = { Schumacher, Christoph and Weinstock, Jan Henrik and Leupers,  
Rainer and Ascheid, Gerd },  
    title = { SScandal: SystemC analysis for nondeterminism anomalies },  
    booktitle = { Forum on Specification and Design Languages (FDL), 18-20  
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    publisher = { IEEE },  
    pages = { 112-119 },  
    year = { 2012 },  
    address = { Piscataway, NJ },  
    typ = { PUB:(DE-HGF)8 },  
    reportid = { RWTH-CONV-199946 },  
    cin = { 120000 / 122810 / 611910 },  
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@inproceedings { SAC+15,  
    author = { Schupp, Stefan and Ábrahám, Erika and Chen, Xin and Ben  
Makhlouf, Ibtissem and Frehse, Goran and Sankaranarayanan, Sriram and  
Kowalewski, Stefan },  
    title = { Current Challenges in the Verification of Hybrid Systems },
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booktitle = { Cyber physical systems : design, modeling, and evaluation
; 5th international workshop, CyPhy 2015, Amsterdam, The Netherlands,
October 8, 2015 ; proceedings / Christian Berger ... (eds.) },
publisher = { Springer International Publishing },
pages = { 8-24 },
series = { Lecture Notes in Computer Science },
year = { 2015 },
address = { Cham },
organization = { 5th Workshop on Design, Modeling, and Evaluation of
Cyber Physical Systems, Amsterdam (Netherlands), 2015-10-08 - 2015-10-08 },
doi = { 10.1007/978-3-319-25141-7_2 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2015-07355 },
cin = { 121310 / 120000 / 123420 / 121330 / 122810 },
url = { http://publications.rwth-aachen.de/record/564375 },
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@inproceedings { SAB+17,
author = { Schupp, Stefan and Ábrahám, Erika and Ben Makhlouf, Ibtissem
and Kowalewski, Stefan },
title = { HyPro : A C++ Library of State Set Representations for Hybrid
Systems Reachability Analysis },
booktitle = { NASA formal methods : 9th international symposium, NFM
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Misty Davies, Temesghen Kahsai (eds.) },
publisher = { Springer },
pages = { 288-294 },
series = { Lecture Notes in Computer Science },
year = { 2017 },
address = { Cham },
organization = { NASA Formal Methods (NFM) Symposium, Moffett Field, CA
(USA), 2017-05-16 - 2017-05-18 },
doi = { 10.1007/978-3-319-57288-8_20 },
typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2017-06600 },
cin = { 123420 / 120000 / 122810 / 080060 },
url = { http://publications.rwth-aachen.de/record/696076 },
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@inproceedings { SGT+18,
author = { Schweigler, Martin and Grochowski, Marco and Tamrakar, Sujan
and Kowalewski, Stefan },
title = { Ground Surface Pattern Recognition with Hidden Markov Models
for Low Cost Positioning Improvement },
booktitle = { 8th International Conference on Pattern Recognition
Systems (ICPRS 2017) : 11-13 July 2017 },
publisher = { IET },
pages = { 1-6 },
year = { 2018 },
address = { [Stevenage] },
organization = { 8th International Conference of Pattern Recognition
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Systems, Madrid (Spain), 2017-07-11 - 2017-07-13 },
  doi = { 10.1049/cp.2017.0166 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-236283 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/752258 },
}

@inproceedings { SG94,
  author = { Sedlacek, Gerhard and Grotmann, Dietmar },
  title = { Stability aspects for hollow section columns, beams and beam-
columns },
  booktitle = { Tubular structures VI : proceedings sixth International
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/ ed. by Paul Grundy ... },
  publisher = { Balkema },
  pages = { 151-158 },
  year = { 1994 },
  address = { Rotterdam [u.a.] },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-193706 },
  cin = { 311710 / 122810533000-2 },
  url = { http://publications.rwth-aachen.de/record/122810 },
}

@inproceedings { SA11,
  author = { Senst, Martin and Ascheid, Gerd },
  title = { A combined belief propagation and mean field algorithm for
soft carrier phase estimation },
  booktitle = { 2011 8th International Symposium on Wireless
Communication Systems (ISWCS 2011) : Aachen, Germany, 6 - 9 November 2011 /
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  publisher = { IEEE },
  pages = { 512-516 },
  year = { 2011 },
  address = { Piscataway, NJ },
  doi = { 10.1109/ISWCS.2011.6125359 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-195649 },
  cin = { 080006 / 122810 / 611810 / 080004 / 120000 },
  url = { http://publications.rwth-aachen.de/record/125111 },
}

@inproceedings { SWS+12,
  author = { Sheng, Weihua and Wiebe, Artur and Stulova, Anastasia and
Leupers, Rainer and Kienhuis, Bart and Walters, Johan and Ascheid, Gerd },
  title = { FIFO Exploration in Mapping Streaming Applications onto the
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  booktitle = { IEEE 6th International Symposium on Embedded Multicore
SoCs (MCSoc-12), 20-22 Sept. 2012 in Aizu-Wakamatsu },
  publisher = { IEEE },
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pages = { 51-58 },
year = { 2012 },
doi = { 10.1109/MCSoC.2012.15 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-200151 },
cin = { 122810 / 611910 / 120000 },
url = { http://publications.rwth-aachen.de/record/197980 },
}

@inproceedings { SFB+15,
  author = { Simon, Hendrik and Friedrich, Nico and Biallas, Sebastian
and Hauck-Stattelmann, Stefan and Schlich, Bastian and Kowalewski, Stefan },
  title = { Automatic test case generation for PLC programs using
coverage metrics },
  booktitle = { 2015 IEEE 20th Conference on Emerging Technologies
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Luxembourg / co-sponsored by IEEE ... },
  publisher = { IEEE },
  pages = { 4 S. },
  year = { 2015 },
  address = { Piscataway, NJ },
  organization = { 2015 IEEE 20th Conference on Emerging Technologies
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  doi = { 10.1109/ETFA.2015.7301602 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2015-07849 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/565382 },
}

@inproceedings { SK16,
  author = { Simon, Hendrik and Kowalewski, Stefan },
  title = { Static Analysis of Sequential Function Charts using Abstract
Interpretation },
  booktitle = { 2016 IEEE 21st International Conference on Emerging
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Germany / IEEE, IES, Fraunhofer IOSB-INA, InIT },
  publisher = { IEEE },
  pages = { 1-4 },
  year = { 2016 },
  address = { Piscataway, NJ },
  organization = { 21st International Conference on Emerging Technologies
and Factory Automation, Berlin (Germany), 2016-09-06 - 2016-09-09 },
  doi = { 10.1109/ETFA.2016.7733648 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2016-12029 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/680846 },
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@inproceedings { SK18,
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    author = { Simon, Hendrik and Kowalewski, Stefan },
    title = { Mode-Aware Concolic Testing for PLC Software },
    booktitle = { Integrated formal methods : 14th International
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Carlo A. Furia, Kirsten Winter (eds.) },
    publisher = { Springer },
    pages = { 367-376 },
    series = { Lecture notes in computer science },
    year = { 2018 },
    address = { Cham },
    organization = { 14th International Conference, Maynooth (Ireland),
2018-09-05 - 2018-09-07 },
    doi = { 10.1007/978-3-319-98938-9_21 },
    typ = { PUB:(DE-HGF)7 },
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@article { STK18,
    author = { Simon, Hendrik and Triefenbach, Lucas and Kowalewski, Stefan
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    title = { Structural Concolic Testing for Sequential Function Chart },
    journal = { IFAC-PapersOnLine },
    publisher = { Elsevier },
    pages = { 422-427 },
    volume = { 51 },
    number = { 7 },
    year = { 2018 },
    address = { Frankfurt ; M{"u"}nchen [u.a.] },
    issn = { 2405-8963 },
    organization = { 14th IFAC Workshop on Discrete Event Systems,
Castellammare di Stabia (Italy), 2018-05-30 - 2018-06-01 },
    doi = { 10.1016/j.ifacol.2018.06.335 },
    typ = { PUB:(DE-HGF)16 },
    reportid = { RWTH-CONV-236291 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752265 },
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@inbook { SSJ+16,
    author = { Smieschek, Manfred and Stollenwerk, André and J{"u"}ptner,
Patrick and Kowalewski, Stefan and Orlikowsky, Thorsten and Schoberer, Mark
},
    title = { Evaluating Hand Disinfection with Alcohol-Based Hand
Sanitizers Using Thermal Imaging },
    booktitle = { [Gemeinsamer Tagungsband der Workshops der Tagung
Software Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 / Edited
by: Wolf Zimmermann, Lukas Alperowitz, Bernd Br{"u"}gge, J{"o"}rn Fahsel,
Andrea Herrmann, Anne Hoffmann, Andreas Krall, Dieter Landes, Horst Lichter,
Dirk Riehle, Ina Schaefer, Constantin Scheuermann, Alexander Schlaefer,

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Sibylle Schupp, Andreas Seitz, Andreas Steffens, André Stollenwerk,
R{"u}diger Wei{ss}bach ],
    publisher = { RWTH Aachen },
    pages = { 174-181 },
    volume = { 1559 },
    series = { CEUR Workshop Proceedings },
    year = { 2016 },
    address = { Aachen, Germany },
    organization = { 2nd Workshop on Fail Safety in Medical Cyber-Physical
Systems, Wien (Austria), 2016-02-26 - 2016-02-26 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-207900 },
    cin = { 122810 / 120000537500-3 },
    url = { http://ceur-ws.org/Vol-1559/paper23.pdf },
}

@inproceedings { SHS+18,
    author = { Smieschek, Manfred and Hinrichs, Timo and Stollenwerk, André
and Kowalewski, Stefan and Preu{ss}, R{"u}diger },
    title = { A New Condition Indicator for Slow-Rotating Roller Chains
based on the Angle and Torque of the Driving Motor },
    booktitle = { 2018 IEEE 14th International Conference on Automation
Science and Engineering (CASE) : 20-24 Aug. 2018 / general chair: Birgit
Vogel-Heuser (Technical University of Munich) ; publisher: IEEE },
    publisher = { IEEE },
    pages = { 642-644 },
    year = { 2018 },
    address = { Piscataway, NJ },
    organization = { 14th International Conference on Automation Science
and Engineering, Munich (Germany), 2018-08-20 - 2018-08-24 },
    doi = { 10.1109/COASE.2018.8560542 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-236282 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752188 },
    illkey = { 140DEMO - Industrie-4.0-Testbeds - Umsetzung von
Demonstratoren in realen Umgebungen und Evaluation mit Fokus auf
Standardisierung (I40Demo); Teilvorhaben: 'Use Case 2: Plug&Produce -
Feldger{"a}tetausch im Betrieb' und 'Use Case 4: Predictive Maintenance' },
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@inproceedings { SSK+17,
    author = { Smieschek, Manfred and Stollenwerk, André and Kowalewski,
Stefan and Orlikowsky, Thorsten and Schoberer, Mark },
    title = { Unterst{"u}tzte Handerkennung in Thermographiebildern zur
Validierung der hygienischen H{"a}ndedesinfektion },
    booktitle = { Bildverarbeitung f{"u}r die Medizin 2017 : Algorithmen -
Systeme - Anwendungen. Proceedings des Workshops vom 12. bis 14. M{"a}rz
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Fritzsche, Thomas Martin Deserno, geb. Lehmann, Heinz Handels, Thomas
Tolxdorff },

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    publisher = { Springer Berlin Heidelberg },
    pages = { 147-152 },
    series = { Informatik aktuell },
    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 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-236348 },
    cin = { 122810 / 120000537500-3 },
    url = { http://publications.rwth-aachen.de/record/752321 },
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@inproceedings { SKS+19,
    author = { Smieschek, Manfred and Kobsik, Gregor and Stollenwerk, André
and Kowalewski, Stefan and Orlikowsky, Thorsten and Schoberer, Mark },
    title = { Aided Hand Detection in Thermal Imaging Using RGB Stereo
Vision },
    booktitle = { Biomedical engineering ranging from wellness to intensive
care : 2019 41st Annual International Conference of the IEEE Engineering in
Medicine and Biology Society (EMBC) : 41st EMB Conference : July 23-27,
Berlin / IEEE, EMB ; conference editorial board chair: Riccardo Barbieri,
Milan, Italy },
    publisher = { IEEE },
    pages = { 6314-6317 },
    year = { 2019 },
    address = { Piscataway, NJ },
    organization = { 41st Annual International Conference of the IEEE
Engineering in Medicine & Biology Society, Berlin (Germany), 2019-07-23 -
2019-07-27 },
    doi = { 10.1109/EMBC.2019.8856990 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-09705 },
    cin = { 122810 / 120000537500-3 },
    url = { http://publications.rwth-aachen.de/record/770752 },
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@inproceedings { SRT+20,
    author = { Smieschek, Manfred and Rakel, Stefan and Th{"o}nnessen,
David and Derks, Andreas and Stollenwerk, André and Kowalewski, Stefan },
    title = { A Remote Test Environment for a Large-Scale Microcontroller
Laboratory Course },
    booktitle = { Cyber physical systems : model-based design : 9th
international workshop, CyPhy 2019 and 15th international workshop, WESE
2019, New York City, NY, USA, October 17-18, 2019 : revised selected papers
/ Roger Chamberlain, Martin Edin Grimheden, Walid Taha (eds.) },
    publisher = { Springer },
    pages = { 231-246 },
    series = { Lecture Notes in Computer Science },

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    year = { 2020 },
    address = { Cham },
    organization = { Workshop on Embedded Systems and Cyber-Physical
Systems Education, New York (USA), 2019-10-17 - 2019-10-18 },
    doi = { 10.1007/978-3-030-41131-2_11 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2020-02344 },
    cin = { 122810 / 120000 },
    url = {
http://publications.rwth-aachen.de/record/783169/files/Remote%20Pool%20Final
.pdf },
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@inproceedings { SBS+14,
    author = { Stattelmann, Stefan and Biallas, Sebastian and Schlich,
Bastian and Kowalewski, Stefan },
    title = { Applying Static Code Analysis on Industrial Controller Code
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    booktitle = { 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] },
    publisher = { IEEE },
    pages = { 4 Seiten },
    year = { 2014 },
    address = { Piscataway, NJ },
    organization = { 2014 IEEE [International Conference on] Emerging
Technologies and Factory Automation, Barcelona (Spain), 2014-09-16 -
2014-09-19 },
    doi = { 10.1109/ETFA.2014.7005254 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-CONV-206434 },
    cin = { 120000 / 122810 },
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@inproceedings { SGW+11,
    author = { Stollenwerk, André and G{"o"}be, F. and Walter, Marian and
Arens, Jutta and Kopp, R{"u"}dger and Kowalewski, Stefan },
    title = { Smart Data Provisioning for Model-Based Generated Code in an
Intensive Care Application },
    booktitle = { 3rd Joint Workshop On High Confidence Medical Devices,
Software, and Systems & Medical Device Plug-and-Play Interoperability :
HCMDSS/MDPnP 2011 ; in conjunction with CPSweek 2011 ; April 11, 2011
Chicago, USA },
    publisher = { HCMDSS/MDPnP 2011 ; in conjunction with CPSweek 2011 ;
April 11, 2011 Chicago, USA },
    pages = { 8 S. },
    year = { 2011 },
    address = { Chicago },
    typ = { PUB:(DE-HGF)8 },
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    reportid = { RWTH-CONV-006017 },
    cin = { 611010 / 122810 },
    url = {
http://www.seas.upenn.edu/~rahulm/Shared/HCMDSS/hcmdss11_aachen.pdf },
}

@inproceedings { SJK09,
  author = { Stollenwerk, André and Jongdee, Chate and Kowalewski, Stefan
},
  title = { An undergraduate embedded software laboratory for the masses
},
  booktitle = { Workshop on Embedded Systems Education (WESE09),
Grenoble, France },
  publisher = { ACM },
  pages = { 34-41 },
  year = { 2009 },
  address = { Grenoble, France },
  doi = { 10.1145/1719010.1719017 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-173254 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/100434 },
}

@inproceedings { SLW+10,
  author = { Stollenwerk, André and Lang, Martin and Walter, Marian and
Arens, Jutta and Kopp, Rüdger and Kowalewski, Stefan },
  title = { Sicherheitskonzept für eine intensivmedizinische
Anwendung am Beispiel der EMC0 },
  booktitle = { Entwurf komplexer Automatisierungssysteme : EKA 2010 ;
Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ; 11. Fachtagung
mit Tutorium, 25. bis 27. Mai 2010 in Magdeburg, Denkfabrik im
Wissenschaftshafen / ifak, Institut für Automation und Kommunikation
e.V., Magdeburg; Otto-von-Guericke-Universität Magdeburg, Institut
für Automatisierungstechnik. [Hrsg.: Ulrich Jumar, Eckehard Schnieder,
Christian Diedrich] },
  publisher = { ifak },
  pages = { 65-74 },
  year = { 2010 },
  address = { Magdeburg },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-190268 },
  cin = { 611010 / 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/119102 },
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@inproceedings { SDK10,
  author = { Stollenwerk, André and Derks, Andreas and Kowalewski, Stefan
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  title = { A Modular, Robust and Open Source Microcontroller Platform },
  booktitle = { Proceedings / 2010 Workshop on Embedded Systems Education
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... },
  publisher = { ACM },
  pages = { 48-54 },
  year = { 2010 },
  address = { New York, NY },
  doi = { 10.1145/1930277.1930285 },
  typ = { PUB:(DE-HGF)8 },
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/119371 },
}
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@article { SWW+09,
  author = { Stollenwerk, André and Walter, Marian and Wartzek, Tobias
and Kopp, R{"u}dger and Arens, Jutta and Kowalewski, Stefan },
  title = { A safety and control concept for extracorporeal membrane
oxygenation },
  journal = { The international journal of artificial organs },
  publisher = { Wichtig Ed. },
  pages = { 428-428 },
  volume = { 32 },
  number = { 7 },
  year = { 2009 },
  address = { Milano [u.a.] },
  issn = { 0391-3988 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-013747 },
  cin = { 122810533000-2 / 611010811001-1 / 120000 },
  url = {
http://www.artificial-organs.com/public/IJA0/Article/Article.aspx?UidArticle
=B21049FA-B9E6-4AF6-96BC-F3AAEB904F59 },
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@inproceedings { SGA+11,
  author = { Stollenwerk, André and Gathmann, Felix and Arens, Jutta and
Bensberg, Ralf and Walter, Marian and Kopp, R{"u}dger and Kowalewski,
Stefan },
  title = { Safety Aware Pump-Control for a Rotary ECMO Blood Pump },
  booktitle = { The international journal of artificial organs },
  publisher = { Wichtig },
  pages = { 617-617 },
  volume = { 34 },
  number = { 8 },
  year = { 2011 },
  address = { Milano [u.a.] },
  issn = { 0391-3988 },
  doi = { 10.5301/IJA0.2011.8701 },
  typ = { PUB:(DE-HGF)16 },
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url = { http://publications.rwth-aachen.de/record/135553 },
}

@inproceedings { SJA+10,
  author = { Stollenwerk, André and J{"o}rgens, J{"o}rg and Arens,
Jutta and Walter, Marian and Kopp, R{"u}dger and Kowalewski, Stefan },
  title = { Model Based Diagnosis for Extracorporeal Membrane Oxygenation
},
  booktitle = { The international journal of artificial organs },
  publisher = { Wichtig Ed. },
  pages = { 447-447 },
  volume = { 33 },
  number = { 7 },
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  address = { Milano [u.a.] },
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  typ = { PUB:(DE-HGF)16 },
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  url = { http://publications.rwth-aachen.de/record/169676 },
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@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, Stefan },
  title = { Modellbasierte Fehlerdiagnose eines Membranoxygenators },
  journal = { Proceedings : Jahrestagung der Deutschen Gesellschaft
f{"u}r Biomedizinische Technik (DGBMT) im VDE },
  publisher = { de Gruyter },
  pages = { 174-177 },
  volume = { 55 },
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  year = { 2010 },
  address = { Berlin [u.a.] },
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  doi = { 10.515/BMT.2010.713 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-047243 },
  cin = { 611010 / 122810 },
  url = { http://publications.rwth-aachen.de/record/169679 },
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@article { SGB+11,
  author = { Stollenwerk, André and Gathmann, Felix and Bensberg, Ralf
and Walter, Marian and Arens, Jutta and Kopp, R{"u}dger and Kowalewski,
Stefan },
  title = { A model-based safety concept for a rotary blood pump },
  journal = { Biomedizinische Technik = Biomedical engineering },
  publisher = { de Gruyter },
  volume = { 56 },
  number = { S1 },
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year = { 2011 },
address = { Berlin [u.a.] },
issn = { 0013-5585 },
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typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-CONV-067756 },
cin = { 120000 / 122810 / 611010 },
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@phdthesis { St013,
  author = { Stollenwerk, André },
  othercontributors = { Kowalewski, Stefan },
  title = { Ein modellbasiertes Sicherheitskonzept f{"u}r die
extrakorporale Lungenunterst{"u}tzung },
  publisher = { Shaker },
  pages = { XX, 183 S. : Ill., graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2013 },
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@inproceedings { SKB+14,
  author = { Stollenwerk, André and K{"u}hn, Jan and Brendle, Christian
and Walter, Marian and Arens, Jutta and Wardeh, Markus Nabil and Kowalewski,
Stefan and Kopp, R{"u}dger },
  title = { Model-based supervision of a blood pump },
  booktitle = { 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 },
  publisher = { IFAC },
  pages = { 6593-6598 },
  series = { IFAC-PapersOnLine },
  year = { 2014 },
  address = { Laxenburg },
  organization = { 19th World Congress of the International-Federation-
of-Automatic-Control, Cape Town (South Africa), 2014-08-24 - 2014-08-29 },
  typ = { PUB:(DE-HGF)7 },
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@inproceedings { SKW+15,  
  author = { Stollenwerk, André and K{"u}hn, Jan and Walter, Marian and  
Brendle, Christian and Wardeh, Markus Nabil and Rossaint, Rolf and  
Leonhardt, Steffen and Kowalewski, Stefan and Kopp, R{"u}dger },  
  title = { Software-based Prediction of Cannula Occlusion during  
Extracorporeal Blood Circulation through Networked Medical Data },  
  booktitle = { SE-WS 2015, software engineering workshops 2015 :  
gemeinsamer Tagungsband der Workshops der Tagung Software Engineering 2015,  
Dresden, 17. - 18. M{"a"}rz 2015 / hrsg. von Wolg Zimmermann ... },  
  publisher = { RWTH Aachen },  
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  series = { CEUR workshop proceedings },  
  year = { 2015 },  
  address = { Aachen, Germany },  
  organization = { Software Engineering 2015, Dresden (Germany),  
2015-03-17 - 2015-03-18 },  
  typ = { PUB:(DE-HGF)8 },  
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@inproceedings { SLR+15,  
  author = { Stollenwerk, André and Leonhardt, Steffen and Rossaint, Rolf  
and Kowalewski, Stefan },  
  title = { Advancing Intensive Care by Networked Medical Systems },  
  booktitle = { [Proceedings of the 11th German-Russian-Conference on  
Biomedical Engineering, GRC, 17.06.2015-19.06.2015, Aachen, Germany] },  
  pages = { 211-213 },  
  year = { 2015 },  
  organization = { 11th German-Russian-Conference on Biomedical  
Engineering, Aachen (Germany), 2015-06-17 - 2015-06-19 },  
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@article { SKS+17,  
  author = { Stollenwerk, André and Kopp, R{"u"}dger and Sehl, Florian  
and Janisch, Thorsten },  
  title = { Tauchcomputerunterst{"u"}tzung durch vernetzte Smart  
Wearables },  
  journal = { Caisson : Mitteilungen der GT{"U"}M e.V. },  
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    address = { Murnau },
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@inproceedings { SSM+17,
    author = { Stollenwerk, André and Sehl, Florian and Marx, Gernot and
Kowalewski, Stefan and Janisch, Thorsten },
    title = { Enrichment of a diving computer with body sensor network data
},
    booktitle = { 2017 IEEE 14th International Conference on Wearable and
Implantable Body Sensor Networks (BSN) : 9-12 May 2017 / sponsors: IEEE, EMB
},
    publisher = { IEEE },
    pages = { 169-172 },
    year = { 2017 },
    address = { Piscataway, NJ },
    organization = { 2017 IEEE 14th International Conference on Wearable
and Implantable Body Sensor Networks, Eindhoven (Netherlands), 2017-05-09 -
2017-05-12 },
    doi = { 10.1109/BSN.2017.7936034 },
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@article { SBK18,
    author = { Stollenwerk, André and Buglowski, Mateusz and K{"u}hn, Jan
},
    title = { Mock loop for bubble generation in a centrifugal blood pump
for fault simulation },
    journal = { Current Directions in Biomedical Engineering },
    publisher = { de Gruyter },
    pages = { 33-36 },
    volume = { 4 },
    number = { 1 },
    year = { 2018 },
    address = { Berlin },
    issn = { 2364-5504 },
    doi = { 10.1515/cdbme-2018-0009 },
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http://publications.rwth-aachen.de/record/752262/files/752262.pdf },
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@conference { SL09,  
  author = { Stollenwerk, Andre and Lang, Martin },  
  title = { Embedded Contributions to an Intensive Care Safety Concept },  
  booktitle = { ArtistDesign Workshop on Embedded Systems in Healthcare,  
Eindhoven - The Netherlands },  
  year = { 2009 },  
  typ = { PUB:(DE-HGF)5 },  
  reportid = { RWTH-CONV-236341 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/752314 },  
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@inproceedings { Sto20,  
  author = { Stollenwerk, André },  
  title = { An Embedded Graduate Lab Course with Spirit },  
  booktitle = { Cyber Physical Systems. Model-Based Design : 9th  
International Workshop, CyPhy 2019, and 15th International Workshop, WESE  
2019, New York City, NY, USA, October 17-18, 2019, Revised Selected Papers /  
edited by Roger Chamberlain, Martin Edin Grimheden, Walid Taha. },  
  publisher = { Springer International Publishing [2020.] ; Cham :  
Imprint: Springer [2020.] },  
  pages = { 247-263 },  
  series = { Lecture Notes in Computer Science },  
  year = { 2020 },  
  address = { Cham },  
  organization = { Workshop on Embedded Systems and Cyber-Physical  
Systems Education, New York (USA), 2019-10-17 - 2019-10-18 },  
  doi = { 10.1007/978-3-030-41131-2_12 },  
  typ = { PUB:(DE-HGF)7 },  
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http://publications.rwth-aachen.de/record/783168/files/783168.pdf },  
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@phdthesis { Ter18,  
  author = { Terber, Matthias },  
  othercontributors = { Kowalewski, Stefan and Rumpe, Bernhard },  
  title = { Real-world deployment and evaluation of synchronous  
programming in reactive embedded systems },  
  publisher = { RWTH Aachen University, Department of Computer Science },  
  school = { RWTH Aachen University },  
  pages = { 1 Online-Ressource (xvi, 134 Seiten) : Illustrationen },  
  series = { Aachener Informatik-Berichte },  
  year = { 2018 },  
  address = { Aachen },  
  doi = { 10.18154/RWTH-2018-230185 },  
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http://publications.rwth-aachen.de/record/749610/files/749610.pdf },
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@article { TBG+09,
  author = { Thomas, Wolfgang and Bollue, Kai and G{"u}ckel, Dominique
and Quirós, Gustavo and Slaats, Michaela and Ummels, Michael },
  title = { DFG Research Training Group 'Algorithmic synthesis of
reactive and discrete-continuous systems (AlgoSyn)' },
  journal = { Information technology : it },
  publisher = { Oldenbourg },
  pages = { 222-230 },
  volume = { 51 },
  number = { 4 },
  year = { 2009 },
  address = { M{"u"}nchen },
  issn = { 0944-2774 },
  doi = { 10.1524/itit.2009.0545 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-013644 },
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  url = { http://publications.rwth-aachen.de/record/132535 },
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@inproceedings { TRR+18,
  author = { Th{"o"}nnessen, David and Reinker, Niklas and Rakel, Stefan
and Kowalewski, Stefan },
  title = { A concept for PLC hardware-in-the-loop testing using an
extension of structured text },
  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
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.2017.8247580 },
  typ = { PUB:(DE-HGF)7 },
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  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/722218 },
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@article { TK18,
  author = { Th{"o"}nnessen, David and Kowalewski, Stefan },
  title = { Agiles Testen von cyber-physischen Produktionssystemen :
Einsatz von SPS-Sprachen zur Testfallbeschreibung },
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journal = { Atp-Edition : automatisierungstechnische Praxis },
publisher = { DIV Dt. Industrieverl. },
pages = { 46-55 },
volume = { 60 },
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address = { M{"u"}nchen },
issn = { 2364-3137 },
doi = { 10.17560/atp.v58i03.1917 },
typ = { PUB:(DE-HGF)16 },
reportid = { RWTH-2018-225395 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/727012 },
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@article { TRR+18a,
  author = { Th{"o"}nnessen, David and Rakel, Stefan and Reinker, Niklas
and Kowalewski, Stefan },
  title = { Matching Discrete Signals for Hardware-in-the-Loop-Testing of
PLCs },
  journal = { IFAC-PapersOnLine },
  pages = { 229-234 },
  volume = { 51 },
  number = { 10 },
  year = { 2018 },
  address = { Laxenburg },
  issn = { 2405-8963 },
  organization = { 3rd IFAC Conference on Embedded Systems, Computational
Intelligence and Telematics in Control },
  doi = { 10.1016/j.ifacol.2018.06.267 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-2018-227582 },
  cin = { 122810 / 110000 / 120000 },
  url = { http://publications.rwth-aachen.de/record/731576 },
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@techreport { TSN+16,
  author = { Th{"o"}nnessen, David and Schweigler, Martin and Ney, Oliver
and Kugelmeier, Mirko },
  title = { Conveying system with an automatic tethering function },
  pages = { 1-7 },
  year = { 2016 },
  typ = { PUB:(DE-HGF)23 },
  reportid = { RWTH-CONV-236287 },
  url = {
https://depatistnet.dpma.de/DepatisNet/depatistnet?action=bibdat&docid=US02018
0081372A1 },
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@inproceedings { TK18a,
  author = { Th{"o"}nnessen, David and Kowalewski, Stefan },
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    title = { Using PLC Programming Languages for Test-Case Specification
of Hardware-in-the-loop Tests },
    booktitle = { [Modellbasierte Entwicklung eingebetteter Systeme, MBEES
2018, 2018-04-16 - 2018-04-18, Hamburg, Germany] },
    publisher = { fortiss Technischer Bericht },
    pages = { 41-50 },
    year = { 2018 },
    organization = { Modellbasierte Entwicklung eingebetteter Systeme,
Hamburg (Germany), 2018-04-16 - 2018-04-18 },
    typ = { PUB:(DE-HGF)8 },
    reportid = { RWTH-CONV-236290 },
    cin = { 122810 / 120000 },
    url = { http://publications.rwth-aachen.de/record/752269 },
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@inproceedings { TRR+18b,
    author = { Th{\o}nnessen, David and Reinker, Niklas and Rakel, Stefan
and Svetlakov, Andrei and Kowalewski, Stefan },
    title = { Correctness Properties and Exemplified Applicability of a
Signal Matching Algorithm with Multidimensional Tolerance Specifications },
    booktitle = { 2018 IEEE 14th International Conference on Automation
Science and Engineering (CASE) : Munich, Germany, August 20-24, 2018 },
    publisher = { IEEE },
    pages = { 1197-1202 },
    year = { 2018 },
    address = { Piscataway, NJ },
    organization = { 2018 IEEE 14th International Conference on Automation
Science and Engineering, Munich (Germany), 2018-08-20 - 2018-08-24 },
    doi = { 10.1109/COASE.2018.8560407 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2019-00319 },
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http://publications.rwth-aachen.de/record/752982/files/752982.pdf },
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@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 },
    booktitle = { 2019 IEEE 15th International Conference on Automation
Science and Engineering : (CASE) : August 22-26, 2019, Vancouver, BC, Canada
/ sponsored by IEEE Robotics and Automation Society ; CASE editorial board:
editor-in-chief: Spiridon (Spyros) Reveliotis ; editors: Cappelleri, David;
Dimarogonas, Dimos V.; Dotoli, Mariagrazia; Fanti, Maria Pia; LUTZ,
Philippe; Seatzu, Carla; Xie, Xiaolan },
    publisher = { IEEE },
    pages = { 1388-1393 },
    year = { 2019 },
    address = { Piscataway, NJ },
    organization = { 15th International Conference on Automation Science

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and Engineering, Vancouver (Canada), 2019-08-22 - 2019-08-26 },
  doi = { 10.1109/COASE.2019.8843227 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2019-04632 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/761173 },
}

@inproceedings { UVS+18,
  author = { Ulewicz, Sebastian and Vogel-Heuser, Birgit and Simon,
Hendrik and Bohlender, Dimitri and Obster, Mathias and Kowalewski, Stefan },
  title = { A priori test coverage estimation for automated production
systems : Using generated behavior models for coverage calculation },
  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.2017.8247704 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2018-223451 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/722217 },
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@article { VDF+14,
  author = { Vogel-Heuser, Birgit and Diedrich, Christian and Fay,
Alexander and Jeschke, Sabina and Kowalewski, Stefan and Wollschlaeger,
Martin and G{\o}hner, Peter },
  title = { Challenges for Software Engineering in Automation },
  journal = { Journal of software engineering and applications : JSEA },
  publisher = { Scientific Research Publ. },
  pages = { 440-451 },
  volume = { 7 },
  number = { 5 },
  year = { 2014 },
  address = { Irvine, Calif. },
  issn = { 1945-3116 },
  doi = { 10.4236/jsea.2014.75041 },
  typ = { PUB:(DE-HGF)16 },
  reportid = { RWTH-CONV-083260 },
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@article { VK13,  
  author = { Vogel-Heuser, Birgit and Kowalewski, Stefan },  
  title = { Cyber-physical Systems },  
  journal = { Automatisierungstechnik : at },  
  publisher = { Oldenbourg },  
  pages = { 667-668 },  
  volume = { 61 },  
  number = { 10 },  
  year = { 2013 },  
  address = { M{"u"}nchen },  
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  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-CONV-085437 },  
  cin = { 120000 / 122810 },  
  url = { http://publications.rwth-aachen.de/record/236678 },  
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@article { VKR+19,  
  author = { V{"o"}lker, Marcus and Kloock, Maximilian and Rabanus, Leon  
and Alrifaae, Bassam and Kowalewski, Stefan },  
  title = { Verification of Cooperative Vehicle Behavior using Temporal  
Logic },  
  journal = { IFAC-PapersOnLine },  
  publisher = { Elsevier },  
  pages = { 99-104 },  
  volume = { 52 },  
  number = { 8 },  
  year = { 2019 },  
  address = { Frankfurt ; M{"u"}nchen [u.a.] },  
  issn = { 2405-8963 },  
  organization = { 10th IFAC Symposium on Intelligent Autonomous  
Vehicles, Gdansk (Poland), 2019-07-03 - 2019-07-05 },  
  doi = { 10.1016/j.ifacol.2019.08.055 },  
  typ = { PUB:(DE-HGF)16 },  
  reportid = { RWTH-2019-08318 },  
  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/766778 },  
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@inproceedings { VK19,  
  author = { V{"o"}lker, Marcus and Kowalewski, Stefan },  
  title = { A Change-Based Heuristic for Static Analysis with Policy  
Iteration },  
  booktitle = { Static Analysis / Chang, Bor-Yuh Evan (Editor) },  
  publisher = { Springer International Publishing },  
  pages = { 73-95 },  
  series = { Lecture Notes in Computer Science },  
  year = { 2019 },  
  address = { Cham },  
  organization = { 26th Static Analysis Symposium, Porto (Portugal), - },
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doi = { 10.1007/978-3-030-32304-2_5 },
typ = { PUB:(DE-HGF)7 },
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http://publications.rwth-aachen.de/record/768806/files/768806.pdf },
}

@inproceedings { WLK+09,
  author = { Walter, Marian and Leonhardt, Steffen and Kopp, R{"u}dger
and Kashefi, Ali and Wartzek, Tobias and Stollenwerk, Andr{e} },
  title = { Automation of long term extracorporeal oxygenation systems },
  booktitle = { ECC 09 : Proceedings of the European Control Conference
2009 ; the 10th in the EUCA Series ; 23-26 August 2009, Budapest, Hungary /
General Chair: L{asz}l{o} Keviczky ... },
  publisher = { EUCA },
  year = { 2009 },
  address = { Budapest },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-172394 },
  cin = { 120000 / 122810533000-3 / 611010811001-1 },
  url = { http://publications.rwth-aachen.de/record/99428 },
}

@inproceedings { WBB+12,
  author = { Walter, Marian and Brendle, Christian and Bensberg, Ralf and
Kopp, R{"u}dger and Arens, Jutta and Stollenwerk, Andr{e} and Leonhardt,
Steffen },
  title = { Closed loop physiological ECMO control },
  booktitle = { 5th European Conference of the International Federation
for Medical and Biological Engineering : 14 - 18 September 2011, Budapest,
Hungary ; [EMBE] / {A}kos Jobb{a}gy (ed.) },
  publisher = { Springer },
  pages = { 319-322 },
  series = { IFMBE Proceedings },
  year = { 2012 },
  address = { [Berlin] },
  doi = { 10.1007/978-3-642-23508-5_83 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-191334 },
  cin = { 120000 / 122810 / 611010 },
  url = { http://publications.rwth-aachen.de/record/120299 },
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@article { WLK+10,
  author = { Walter, Marian and Leonhardt, Steffen and Kopp, R{"u}dger
and Wartzek, Tobias and Arens, Jutta and Stollenwerk, Andr{e} },
  title = { Automatisierung und Fehlerdiagnose bei der extrakorporalen
Membranoxygenierung },
  journal = { Automatisierungstechnik : at },
  publisher = { Oldenbourg },
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pages = { 277-285 },
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@article { WLK+10a,
  author = { Walter, Marian and Leonhardt, Steffen and Kopp, R{"u"}dger
and Arens, Jutta and Weyer, S{"o"}ren and Stollenwerk, André },
  title = { A physiological model for extracorporeal oxygenation
controller design },
  journal = { Annual international conference of the IEEE Engineering in
Medicine and Biology Society },
  publisher = { IEEE },
  pages = { 434-437 },
  volume = { 2010 },
  year = { 2010 },
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@inproceedings { WBA+11,
  author = { Walter, Marian and Brendle, Christian and Arens, Jutta and
Stollenwerk, André and Kopp, R{"u"}dger and Bensberg, Ralf and Leonhardt,
Steffen },
  title = { Physiological target control in long term extracorporeal
oxygenation },
  booktitle = { The international journal of artificial organs },
  publisher = { Wichtig },
  pages = { 625-625 },
  volume = { 34 },
  number = { 8 },
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  year = { 2011 },
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@inproceedings { WBS+12,
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and Kopp, R{"u}dger and Arens, Jutta and Bensberg, Ralf and Leonhardt,
Steffen },
  title = { Patient oriented closed loop control of extracorporeal lung
assist },
  booktitle = { 11th International Conference on Complexity in Acute
Illness (ICCAI), Ottawa, Canada, September 6 - 9, 2012 },
  pages = { 51-51 },
  year = { 2012 },
  typ = { PUB:(DE-HGF)1 },
  reportid = { RWTH-CONV-004925 },
  cin = { 611010 / 122810 },
  url = { http://www.scai-med.org/meetings/2012Iccai/2012iccaiprogram.pdf
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@inproceedings { WBS+13,
  author = { Walter, Marian and Brendle, Christian and Stollenwerk, André
and Kopp, R{"u}dger and Arens, Jutta and Bensberg, Ralf and Leonhardt,
Steffen },
  title = { Patient oriented closed loop control of extracorporeal lung
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  booktitle = { Journal of critical care },
  publisher = { Elsevier },
  pages = { e8-e9 },
  volume = { 28 },
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  address = { New York, NY },
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@article { WSB+13,
  author = { Walter, Marian and Stollenwerk, André and Bensberg, Ralf and
Kopp, R{"u}dger and Leonhardt, Steffen },
  title = { Smart ECLA-closed loop control of O2 and CO2 for management
of extracorporeal lung assist },
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@inproceedings { WBK+16,
  author = { Walter, Marian and Brendle, Christian and K{"u"}hn, Jan and
Janisch, Thorsten and Kopp, R{"u"}dger and Stollenwerk, Andr{e} and Leonhardt,
Steffen },
  title = { Assistive Control of Extracorporeal Oxygenation Systems },
  booktitle = { [Proceedings of the 12th Russian-German Conference on
Biomedical Engineering] },
  pages = { 222-226 },
  year = { 2016 },
  organization = { 12th Russian-German Conference on Biomedical
Engineering, Suzdal (Russia), 2016-07-04 - 2016-07-07 },
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Lungenunterst{"u"}tzung und Beatmung f{"u"}r die Therapie des
Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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@inproceedings { WKK+17,
  author = { Walter, Marian and Kunczik, Janosch and K{"u"}hn, Jan and
Janisch, Thorsten and Kopp, R{"u"}dger and Leonhardt, Steffen },
  title = { Robust control of extracorporeal gas exchange },
  booktitle = { Abstract Book at EMBEC'17 & NBC'17 : the Joint conference
of the European Medical and Biological Engineering Conference (EMBEC) and
the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics
(NBC) : Tampere, Finland / Editors: Jennika Karvinen, Janne Koivisto, Sampo
Tuukkanen, Jari Viik },
  publisher = { BioMediTech Institute and Faculty of Biomedical Sciences
and Engineering Tampere University of Technology },
  pages = { 365, 150-150 },
  year = { 2017 },
  address = { Finland },
  organization = { Joint conference of the European Medical and
Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference
on Biomedical Engineering and Medical Physics (NBC), Tampere (Finland),
2017-06-11 - 2017-06-15 },
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url = { http://embec2017.org/2017/07/07/final-abstract-book/ },
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@inproceedings { WKJ+18,
  author = { Walter, Marian and K{"u}hn, J. and Janisch, Thorsten and
Petran, Jan and Kopp, R{"u}dger and Leonhardt, Steffen },
  title = { Cooperative automation of extracorporeal gas exchange and
artificial ventilation },
  booktitle = { World Congress on Medical Physics & Biomedical
Engineering : June 3-8, 2018, Prague, Czech Republic : IUPESM Pague 2018 :
Book of Abstracts },
  pages = { 663-664 },
  year = { 2018 },
  organization = { World Congress on Medical Physics & Biomedical
Engineering, Prague (Czech Republic), 2018-06-03 - 2018-06-08 },
  typ = { PUB:(DE-HGF)1 },
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  cin = { 611010 / 122810 / 9210120 / 120000 },
  url = { https://guarant.topinfo.cz/iupesm2018/en/book-of-abstracts },
}

@inproceedings { WWS+09,
  author = { Wartzek, Tobias and Walter, Marian and Stollenwerk, Andr 
and Kopp, R{"u}dger and Kashefi, Ali and Leonhardt, Steffen },
  title = { Automatisierung der extrakorporalen Membranoxygenierung },
  booktitle = { Automatisierungstechnische Verfahren f{"u}r die Medizin
: 8. Workshop ; Tagungsband / Thomas Schauer ... (eds.) },
  publisher = { VDI-Verlag },
  pages = { 25-26 },
  series = { Fortschritt-Berichte VDI : Reihe 17,
Biotechnik/Medizintechnik },
  year = { 2009 },
  address = { D{"u}sseldorf },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-172395 },
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  url = { http://publications.rwth-aachen.de/record/99429 },
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@inproceedings { WWS+09a,
  author = { Wartzek, Tobias and Walter, Marian and Schmitz-Rode, Thomas
and Kowalewski, Stefan and Rossaint, Rolf },
  title = { In Vivo Validation of an Automatic Controlled Extracorporeal
Membrane Oxygenator },
  booktitle = { World Congress on Medical Physics and Biomedical
Engineering : 7 - 12 September, 2009, Munich, Germany / Olaf D{"o}ssel;
Wolfgang C. Schlegel (eds.). - 7. Diagnostic and therapeutic
instrumentation, clinical engineering },
  publisher = { Springer },
  pages = { 118-121 },
  series = { IFMBE proceedings },
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year = { 2009 },
address = { Berlin [u.a.] },
doi = { 10.1007/978-3-642-03885-3_34 },
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@phdthesis { Was16,
  author = { Wassen, Georg },
  othercontributors = { Leupers, Rainer and Kowalewski, Stefan },
  title = { Suppressing jitter by isolating bare-metal tasks within a
general-purpose OS on x86 NUMA systems },
  school = { Rheinisch-Westf{\''a}lische Technische Hochschule Aachen },
  pages = { 1 Online-Ressource (x, 314 Seiten) : Illustrationen,
Diagramme },
  year = { 2016 },
  address = { Aachen },
  doi = { 10.18154/RWTH-2017-05450 },
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http://publications.rwth-aachen.de/record/690874/files/690874.pdf },
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@inbook { WSL+14,
  author = { Weinstock, Jan Henrik and Schumacher, Christoph and Leupers,
Rainer and Ascheid, Gerd },
  title = { SScandal: SystemC Analysis for Nondeterminism Anomalies },
  booktitle = { Models, Methods, and Tools for Complex Chip Design :
Selected Contributions from FDL 2012 / edited by Jan Haase },
  publisher = { Springer International Publishing [u.a.] },
  pages = { 69-88 },
  volume = { 265 },
  series = { Lecture Notes in Electrical Engineering },
  year = { 2014 },
  address = { Cham ; s.l. },
  doi = { 10.1007/978-3-319-01418-0_5 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-CONV-110987 },
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@inbook { WGM+13,
  author = { Wiechowski, Norbert and Gerlitz, Thomas and Merschen, Daniel
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  title = { Ein Ansatz zum merkmalsbasierten Konsistenzmanagement in der
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    booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
fachwissenschaftlicher Informatik-Kongress 22. und 23. März 2013 B-IT
Bonn-Aachen International Center for Information Technology, Bonn /
Gesellschaft für Informatik (Hrsg.). [Red.: Ludger Porada] },
    publisher = { Gesellschaft für Informatik e.V. },
    pages = { 2502-2516 },
    volume = { 12 },
    series = { GI-Edition : lecture notes in informatics },
    year = { 2013 },
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@article { WRB+17,
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Kugler, Alexander and Hansen, Norman and Kowalewski, Stefan },
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Development },
    journal = { SAE technical paper },
    publisher = { SAE International },
    volume = { 2017/01/0001-2017/01/1709 },
    year = { 2017 },
    address = { [Warrendale, PA] },
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    organization = { SAE World Congress Experience, Detroit, Mich. (USA),
2017-04-04 - 2017-04-06 },
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    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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@inbook { WK05,
  author = { Wilking, Dirk and Kowalewski, Stefan },
  title = { Agile methods for embedded systems },
  booktitle = { Extreme programming and agile processes in software
engineering : 6th international conference, XP 2005, Sheffield, UK, June 18
- 23, 2005 ; proceedings / Hubert Baumeister ... (ed.) },
  publisher = { Springer },
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  volume = { 3556 },
  series = { Lecture notes in computer science },
  year = { 2005 },
  address = { Berlin [u.a.] },
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@inproceedings { WK07,
  author = { Wilking, Dirk and Kowalewski, Stefan },
  title = { Analyzing software engineering processes on source code level
},
  booktitle = { New trends in software methodologies, tools and
techniques : [proceedings of the sixth SoMeT 07] / ed. by Hamido Fujita ...
},
  publisher = { IOS Press },
  pages = { 305-314 },
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  year = { 2007 },
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@inproceedings { WSK08,
  author = { Wilking, Dirk and Schilli, David and Kowalewski, Stefan },
  title = { Measuring the human factor with the Rasch Model },
  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 },
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    address = { Berlin [u.a.] },
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@inproceedings { WR05,
    author = { Wilking, Dirk and R{"o}ffer, Thomas },
    title = { Realtime Object Recognition Using Decision Tree Learning },
    booktitle = { RoboCup 2004: Robot Soccer World Cup VIII / Daniele Nardi
... (ed.) },
    publisher = { Springer },
    pages = { 556-563 },
    series = { Lecture notes in computer science : Lecture notes in
artificial intelligence },
    year = { 2005 },
    address = { Heidelberg [u.a.] },
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@article { WKK07,
    author = { Wilking, Dirk and Khan, Umar Farooq and Kowalewski, Stefan
},
    title = { An empirical evaluation of refactoring },
    journal = { e-informatica : software engineering journal },
    publisher = { Oficyna Wydawn. Politechn. },
    pages = { 29-44 },
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@phdthesis { Wim15,
    author = { Wimmershoff, Marc },
    othercontributors = { Eckstein, Lutz and Kowalewski, Stefan },
    title = { Fusion und Sensitivit{"a}tsanalyse von Kamera- und digitalen
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    publisher = { Fka, Forschungsges. Kraftfahrwesen },
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series = { Schriftenreihe Automobiltechnik },
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@article { WSA+18,
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and Aiche, Stephan and Beyan, Oya Deniz and Bischoff, Verena and Daumke,
Philipp and Decker, Stefan Josef and Funkat, Gert and Gewehr, Jan E. and de
Greiff, Armin and Haferkamp, Silke Dorothee and Hahn, Udo and Henkel,
Andreas and Kirsten, Toralf and Kl{"o"}ss, Thomas and Lippert, J{"o"}rg and
L{"o"}be, Matthias and Lowitsch, Volker and Maassen, Oliver and Maschmann,
Jens and Meister, Sven and Mikolajczyk, Rafael and N{"u"}chter, Matthias and
Pletz, Mathias W. and Rahm, Erhard and Riedel, Morris and Saleh, Kutaiba and
Schuppert, Andreas and Smers, Stefan and Stollenwerk, Andr{e} and Uhlig,
Stefan and Wendt, Thomas and Zenker, Sven and Fleig, Wolfgang and Marx,
Gernot and Scherag, Andr{e} and L{"o"}ffler, Markus },

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title = { Smart Medical Information Technology for Healthcare (SMITH) :
Data Integration based on Interoperability Standards },

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journal = { Methods of information in medicine },
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Stefan and Moormann, Dieter and Stolte, Torben and Jatzkowski, Inga and
Maurer, Markus and 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 Bengler, Klaus and Diermeyer, Frank and
Lienkamp, Markus and Keilhoff, Dan and Reuss, Hans-Christian and Buchholz,
Michael and Dietmayer, Klaus and Lategahn, Henning and Siepenk{"o"}tter,
Norbert and Elbs, Martin and v. Hin{"u"}ber, Edgar and Dupuis, Marius and
Hecker, Christian },

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title = { UNICARagil - Disruptive Modular Architectures for Agile,

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Automated Vehicle Concepts },
  booktitle = { 27. Aachener Kolloquium Fahrzeug- und Motorentechnik :
October 8th - 10th, 2018 - Eurogress Aachen, Germany = 27. Aachen Colloquium
Automobile and Engine Technology. - 1 },
  publisher = { Aachener Kolloquium Fahrzeug- und Motorentechnik GbR },
  pages = { 663-694 },
  year = { 2018 },
  address = { Aachen },
  organization = { 27th Aachen Colloquium Automobile and Engine
Technology 2018, Aachen (Germany), 2018-10-08 - 2018-10-10 },
  doi = { 10.18154/RWTH-2018-229909 },
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http://publications.rwth-aachen.de/record/749158/files/749158_Liste%20der%20
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@proceedings { ZAB+16,
  editor = { Zimmermann, Wolf and Alperowitz, Lukas and Br{"u"}gge, Bernd
and Fahsel, J{"o"}rg and Herrmann, Andrea and Hoffmann, Anne 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
Wei{\ss}bach, R{"u"}diger },
  title = { Gemeinsamer Tagungsband der Workshops der Tagung Software
Engineering 2016 (SE-WS 2016), Wien, 23.-26. Februar 2016 },
  publisher = { RWTH Aachen },
  pages = { 219 Seiten },
  volume = { 1559 },
  series = { CEUR workshop proceedings },
  year = { 2016 },
  address = { Aachen, Germany },
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Software Engineering 2016, Wien (Austria), 2016-02-23 - 2016-02-26 },
  typ = { PUB:(DE-HGF)26 },
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