

Publications

[BBF+20]

[PDFBIB](#)

Buglowski, M., Bleilevens, C., Fabry, G., Kowalewski, S., and Stollenwerk, A., "Flussgesteuerte pH-Regulierung in einem automatisierten Nierenperfusionssystem", , vol. 1, iss. 1, 2020

Flussgesteuerte pH-Regulierung in einem automatisierten Nierenperfusionssystem

Bibtex entry :

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@article { BBF+20,
  author = { Buglowski, Mateusz and Bleilevens, Christian and Fabry,
    Gregor and Kowalewski, Stefan and Stollenwerk, André },
  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 },
  reportid = { RWTH-2020-02624 },
  cin = { 122810 / 120000 },
  url = { https://doi.org/10.18416/AUTOMED.2020 },
  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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[BBG+20]

[PDFBIB](#)

Buchsbaum, M. S. K., Brecher, C., Grochowski, M., and Kowalewski, S., "Identifikation von Informationen zur Beschreibung der Systemgrenzen eines sicheren, cyber-physischen Automatisierungssystems", in *Proc. Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : EKA 2020 : 05.-06. Mai 2020 : 16. Fachtagung mit Workshop, Magdeburg, Magdeburg, 2020, Otto-von-Guericke-Universität Magdeburg; Universitaetsbibliothek, p. 10.*

Identifikation von Informationen zur Beschreibung der Systemgrenzen eines sicheren, cyber-physischen Automatisierungssystems

Bibtex entry :

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@inproceedings { BBG+20,
  author = { Buchsbaum, Melanie Sarah Katharina and Brecher,
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and Grochowski, Marco 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 },
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Anwendungen :
EKA 2020, Magdeburg (Germany), 2020-05-05 - 2020-05-06 },
  typ = { PUB:(DE-HGF)7 },
  reportid = { RWTH-2020-05987 },
  cin = { 417200 / 417310 / 080067 / 122810 / 120000 },
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[GKB+20]

PDFBIB

Grochowski, M., Kowalewski, S., Buchsbaum, M. S. K., and Brecher, C., "Befähigung der Testautomatisierung für ein cyber-physisches Produktionssystem", in *Proc. Entwurf komplexer Automatisierungssysteme : Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen : EKA 2020 : 05.-06. Mai 2020 : 16. Fachtagung mit Workshop; Magdeburg*, Magdeburg, 2020, Otto-von-Guericke-Universität Magdeburg; Universitaetsbibliothek, p. 10.

Befähigung der Testautomatisierung für ein cyber-physisches Produktionssystem

Bibtex entry :

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@inproceedings { GKB+20,
  author = { Grochowski, Marco and Kowalewski, Stefan and Buchsbaum,
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[GSB+20]

PDFBIB

Grochowski, M., Simon, H., Bohlender, D., Kowalewski, S., Löcklin, A., Müller, T., Jazdi, N., Zeller, A., and Weyrich, M., "Formale Methoden für rekonfigurierbare cyber-physische Systeme in der Produktion", *Automatisierungstechnik*, vol. 68, iss. 1, pp. 3-14, 2020

Formale Methoden für rekonfigurierbare cyber-physische Systeme in der Produktion

Bibtex entry :

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@article { GSB+20,
    author = { Grochowski, Marco and Simon, Hendrik and Bohlender,
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M{"u}ller, Timo and Jazdi, Nasser and Zeller, Andreas and
Weyrich, Michael },
    title = { Formale Methoden f{"u}r rekonfigurierbare cyber-
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    journal = { Automatisierungstechnik },
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    reportid = { RWTH-2019-12214 },
    cin = { 122810 / 120000 },
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[JSS+20]

[PDFBIB](#)

Janisch, T., Stollenwerk, A., Siekmann, U., and Kopp, R., "Treatment of children with Hyperbaric Oxygenation (HBOT) : an Europe-wide survey", *Minerva Pediatrica*, 2020

Treatment of children with Hyperbaric Oxygenation (HBOT) : an Europe-wide survey

Bibtex entry :

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@article { JSS+20,
  author = { Janisch, Thorsten and Stollenwerk, André and Siekmann,
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  title = { Treatment of children with Hyperbaric Oxygenation (HBOT)
:
  an Europe-wide survey },
  journal = { Minerva Pediatrica },
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http://publications.rwth-aachen.de/record/787714/files/787714.pdf },
}
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[KGE+20]

[PDFBIB](#)

König, G., Grochowski, M., Eckert, M., Jakobczak, F., Stollenwerk, J., Kowalewski, S., and Loosen, P., "Apparat zur automatisierten Justage optischer Systeme", *DGaO-Proceedings*, vol. 2020, 2020

Apparat zur automatisierten Justage optischer Systeme

Bibtex entry :

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@article { KGE+20,
  author = { K{"o}nig, Georg and Grochowski, Marco and Eckert,
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  and Jakobczak, F. and Stollenwerk, Jochen and Kowalewski, S.
and Loosen, Peter },
  title = { Apparat zur automatisierten Justage optischer Systeme },
  journal = { DGaO-Proceedings },
  volume = { 2020 },
  year = { 2020 },
  address = { Erlangen-N{"u}rnberg: Dt. Gesellschaft f{"u}r
angewandte
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    Optik },
    issn = { 1614-8436 },
    organization = { 121. Jahrestagung der deutschen Gesellschaft
f{"u}r
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    typ = { PUB:(DE-HGF)16 },
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    cin = { 418910 / 080067 / 122810 / 120000 },
    url = { http://www.dgao-proceedings.de },
}

```

[MKA+20]

PDFBIB

Mokhtarian, A., Kampmann, A., Alrifaae, B., Kowalewski, S., Lampe, B., and Eckstein, L., "Agile Requirement Engineering for a Cloud System for Automated and Networked Vehicles", in *Proc. Schloss Dagstuhl--Leibniz-Zentrum für Informatik*, Dagstuhl, Germany, 2020 in OpenAccess Series in Informatics (OASICS), Schloss Dagstuhl - Leibniz-Zentrum für Informatik, p. 4:1-4:8.

Agile Requirement Engineering for a Cloud System for Automated and Networked Vehicles

Bibtex entry :

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@inproceedings { MKA+20,
    author = { Mokhtarian, Armin and Kampmann, Alexandru and Alrifaae,
    Bassam and Kowalewski, Stefan and Lampe, Bastian and
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    booktitle = { Schloss Dagstuhl--Leibniz-Zentrum f{"u}r Informatik
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    publisher = { Schloss Dagstuhl - Leibniz-Zentrum f{"u}r Informatik
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    pages = { 4:1-4:8 },
    series = { OpenAccess Series in Informatics (OASICS) },
    year = { 2020 },
    address = { Dagstuhl, Germany },
    organization = { 2nd International Workshop on Autonomous Systems
Design,
    Grenoble (France), 2020-03-12 - 2020-03-13 },
    doi = { 10.4230/OASICS.ASD.2020.4 },
    typ = { PUB:(DE-HGF)7 },
    reportid = { RWTH-2020-08417 },
    cin = { 122810 / 120000 },
}

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[SRT+20]

PDFBIB

Smieschek, M., Rakel, S., Thönnessen, D., Derks, A., Stollenwerk, A., and Kowalewski, S., "A Remote Test Environment for a Large-Scale Microcontroller Laboratory Course", in *Proc. 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.), Cham, 2020 in Lecture Notes in Computer Science, Springer, pp. 231-246.

A Remote Test Environment for a Large-Scale Microcontroller Laboratory Course

Bibtex entry :

```
@inproceedings { SRT+20,
  author = { Smieschek, Manfred and Rakel, Stefan and Th{"o}nnessen,
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2019 : revised selected papers / Roger Chamberlain, Martin
Edin Grimheden, Walid Taha (eds.) },
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  series = { Lecture Notes in Computer Science },
  year = { 2020 },
  address = { Cham },
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  Education, New York (USA), 2019-10-17 - 2019-10-18 },
  doi = { 10.1007/978-3-030-41131-2_11 },
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http://publications.rwth-aachen.de/record/783169/files/Remote%20Pool%20
Final.pdf },
}
```

[SS20]

[PDFBIB](#)

Stollenwerk, A. and Smieschek, M., "Eingabe und Übertragung von Instandhaltungsinformationen für das Condition Monitoring - Digitalisierung von Offline-Informationen", , Düsseldorf / Berlin, VDI/VDE 3711, 2020.

Eingabe und Übertragung von Instandhaltungsinformationen für das Condition

Monitoring - Digitalisierung von Offline-Informationen

Bibtex entry :

```
@techreport { SS20,
  author = { Stollenwerk, André and Smieschek, Manfred },
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Instandhaltungsinformationen
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  year = { 2020 },
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https://www.vdi.de/richtlinien/details/vdivde-3711-eingabe-und-uebertra
gung-von-instandhaltungsinformationen-fuer-das-condition-monitoring-
digitalisierung-von-offline-informationen },
}
```

[Sto20]

[PDFBIB](#)

Stollenwerk, A., "An Embedded Graduate Lab Course with Spirit", in *Proc. 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.*, Cham, 2020 in *Lecture Notes in Computer Science*, Springer International Publishing [2020.] ; Cham : Imprint: Springer [2020.], pp. 247-263.

An Embedded Graduate Lab Course with Spirit

Bibtex entry :

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@inproceedings { Sto20,
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  Martin Edin Grimheden, Walid Taha. },
  publisher = { Springer International Publishing [2020.] ; Cham :
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year = { 2020 },
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Education, New York (USA), 2019-10-17 - 2019-10-18 },
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typ = { PUB:(DE-HGF)7 },
reportid = { RWTH-2020-02343 },
cin = { 122810 / 120000 },
url = {
http://publications.rwth-aachen.de/record/783168/files/783168.pdf },
}

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[BCK+19]

[PDFBIB](#)

Bohlender, D., Chiyah Garcia, F. J., Köhl, M., Menghi, C., and Wortmann, A., "On Explainability and its Characterization", *Explainable Software for Cyber-Physical Systems (ES4CPS) : Report from the GI Dagstuhl Seminar 19023 : January 06-11 2019, Schloss Dagstuhl / Edited By: Joel Greenyer ; Malte Lochau ; Thomas Vogel*, pp. 4-7, 2019

On Explainability and its Characterization

Bibtex entry :

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@article { BCK+19,
author = { Bohlender, 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 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 },
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cin = { 122810 / 120000 / 121510 },
url = {
http://publications.rwth-aachen.de/record/782047/files/782047.pdf },
}

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[BK19]

[PDFBIB](#)

Bohlender, D. and Kowalewski, S., "Leveraging Horn clause solving for compositional verification

of PLC software", *Discrete event dynamic systems*, vol. 30, pp. 1-24, 2019

Leveraging Horn clause solving for compositional verification of PLC software

Bibtex entry :

```
@article { BK19,
  author = { Bohlender, Dimitri and Kowalewski, Stefan },
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  journal = { Discrete event dynamic systems },
  publisher = { Springer Science + Business Media B.V },
  pages = { 1-24 },
  volume = { 30 },
  year = { 2019 },
  address = { Dordrecht [u.a.] },
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  typ = { PUB:(DE-HGF)16 },
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  url = { http://publications.rwth-aachen.de/record/775404 },
}
```

[BK19a]

[PDFBIB](#)

Bohlender, D. and Köhl, M. A., "Towards a Characterization of Explainable Systems", , 2019

Towards a Characterization of Explainable Systems

Bibtex entry :

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@article { BK19a,
  author = { Bohlender, Dimitri and Köhl, Maximilian A. },
  title = { Towards a Characterization of Explainable Systems },
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    https://www.semanticscholar.org/paper/Towards-a-Characterization-of-Explainable-Systems-Bohlender-K%C3%B6hl/b3516a71fed895a1a88b7d9842eca41c0fb48b7d },
}
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[Der19]

[PDFBIB](#)

Dernehl, C. M., "Verification of embedded software models by combining abstract interpretation, symbolic execution and stability analysis", PhD Thesis, Aachen, 2019.

Verification of embedded software models by combining abstract interpretation, symbolic execution and stability analysis

Bibtex entry :

```
@phdthesis { Der19,
  author = { Dernehl, Christian Michael },
  othercontributors = { Kowalewski, Stefan and Moormann, Dieter },
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  pages = { 1 Online-Ressource (xxiii, 156 Seiten) : Illustrationen,
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  series = { Aachener Informatik-Berichte },
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[FDG+19]

[PDFBIB](#)

Fabry, G., Doorschodt, B. M., Grzanna, T., Boor, P., Elliott, A., Stollenwerk, A., Tolba, R. H., Rossaint, R., and Bleilevens, C., "Cold Preflush of Porcine Kidney Grafts Prior to Normothermic Machine Perfusion Aggravates Ischemia Reperfusion Injury", *Scientific reports*, vol. 9, p. 9, 2019

Cold Preflush of Porcine Kidney Grafts Prior to Normothermic Machine Perfusion Aggravates Ischemia Reperfusion Injury

Bibtex entry :

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@article { FDG+19,
  author = { Fabry, Gregor and Doorschodt, Benedict M. and Grzanna,
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Machine Perfusion Aggravates Ischemia Reperfusion Injury },
journal = { Scientific reports },
publisher = { Macmillan Publishers Limited, part of Springer Nature
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volume = { 9 },
year = { 2019 },
address = { [London] },
issn = { 2045-2322 },
doi = { 10.18154/RWTH-2019-08778 },
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9790209527000-2 },
url = {
http://publications.rwth-aachen.de/record/767376/files/767376.pdf },
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Entwicklung eines vollautomatisierten in vitro Teststands
(Mock Loop) - Ein kunstlicher Kreislauf als
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Membranoxygenatoren und zur Transplantationssimulation
(BMBF-031L0134B) },
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[GKB+19]

[PDFBIB](#)

Grochowski, M., Kowalewski, S., Buchsbaum, M. S. K., and Brecher, C., "Applying Runtime Monitoring to the Industrial Internet of Things", in *Proc. 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 (ISA), Spain*, Piscataway, NJ, 2019, IEEE.

Applying Runtime Monitoring to the Industrial Internet of Things

Bibtex entry :

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@inproceedings { GKB+19,
author = { Grochowski, Marco and Kowalewski, Stefan and Buchsbaum,
Melanie Sarah Katharina and Brecher, Christian },
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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

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    and Electronics Engineers (IEEE), IEEE Industrial
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[GKB+19a]

[PDFBIB](#)

Grochowski, M., Kowalewski, S., Buchsbaum, M. S. K., and Brecher, C., "Applying Passive Testing to an Industrial Internet of Things Plant", in *Proc. VALID 2019 : the Eleventh International Conference on Advances in System Testing and Validation Lifecycle : November 24-28, 2019, 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)*, [Wilmington, DE, USA], 2019, IARIA, pp. 31-37.

Applying Passive Testing to an Industrial Internet of Things Plant

Bibtex entry :

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@inproceedings { GKB+19a,
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  pages = { 31-37 },
  year = { 2019 },
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http://thinkmind.org/index.php?view=article&articleid=valid_2019_2_30_4
0023 },
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[Gob19]

[PDFBIB](#)

Göbe, F., "Runtime supervision of PLC programs using discrete-event systems", PhD Thesis, Aachen, 2019.

Runtime supervision of PLC programs using discrete-event systems

Bibtex entry :

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@phdthesis { Gob19,
  author = { G{"o}be, Florian },
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  publisher = { RWTH Aachen University, Department of Computer
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  url = {
http://publications.rwth-aachen.de/record/773311/files/773311.pdf },
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[Gro19]

[PDFBIB](#)

Grobosch, S., "Formale Methoden für die Entwicklung von eingebetteter Software in kleinen und mittleren Unternehmen", PhD Thesis, Düren, 2019.

Formale Methoden für die Entwicklung von eingebetteter Software in kleinen und mittleren Unternehmen

Bibtex entry :

```
@phdthesis { Gro19,
  author = { Grobosch, Sebastian },
  othercontributors = { Kowalewski, Stefan and Engell, Sebastian },
  title = { Formale Methoden für die Entwicklung von
eingebetteter
  Software in kleinen und mittleren Unternehmen },
  publisher = { Shaker },
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  pages = { 1 Online-Ressource (ix, 162 Seiten) : Illustrationen,
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http://publications.rwth-aachen.de/record/768999/files/768999.pdf },
}
```

[KAK+19]

[PDFBIB](#)

Kampmann, A., Alrifaae, B., Kohout, M., Wüstenberg, A., Woopen, T., Nolte, M., Eckstein, L., and Kowalewski, S., "A Dynamic Service-Oriented Software Architecture for Highly Automated Vehicles", in *Proc. 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, Piscataway, NJ, 2019, IEEE, pp. 2101-2108.*

A Dynamic Service-Oriented Software Architecture for Highly Automated Vehicles

Bibtex entry :

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@inproceedings { KAK+19,
  author = { Kampmann, Alexandru and Alrifaae, Bassam and Kohout,
Markus
  and Wüstenberg, Andreas and Woopen, Timo and Nolte,
  Marcus and Eckstein, Lutz and Kowalewski, Stefan },
  title = { A Dynamic Service-Oriented Software Architecture for
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- ITSC : Auckland, New Zealand, 27-30 October 2019 / IEEE,
IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation
Systems Society },
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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 },
}

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[KBL+19]

[PDFBIB](#)

Köhl, M. A., Baum, K., Langer, M., Oster, D., Speith, T., and Bohlender, D., "Explainability as a Non-Functional Requirement", in *Proc. 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)*, Piscataway, JN, 2019, IEEE, pp. 363-368.

Explainability as a Non-Functional Requirement

Bibtex entry :

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@inproceedings { KBL+19,
author = { K{"o}hl, Maximilian A. and Baum, Kevin and Langer,
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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 },
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organization = { 2019 IEEE 27th International Requirements
Engineering
Conference, Jeju Island (South Korea), 2019-09-23 -
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cin = { 122810 / 120000 },
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[KBS+19]

[PDFBIB](#)

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

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Bibtex entry :

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@inproceedings { KBS+19,
  author = { K{"u}hn, Jan and Buglowski, Mateusz and Stollenwerk,
André
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Steffen and Petran, Jan and Kopp, R{"u}dger and Rossaint,
Rolf and Janisch, Thorsten },
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edited by Lenka Lhotska, Lucie Sukupova, Igor Lacković,
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Membranoxygenatoren und zur Transplantationssimulation
(BMBF-031L0134B) },

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[KKM+19]

[PDFBIB](#)

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Bibtex entry :

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@inproceedings { KKM+19,
  author = { Kloock, Maximilian and Kragl, Ludwig and Maczijekowski,
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[KNR+19]

[PDFBIB](#)

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UNICARagil - New architectures for disruptive vehicle concepts

Bibtex entry :

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@inproceedings { KNR+19,
  author = { Keilhoff, Dan and Niedballa, Dennis and Reuss,
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    Alexandru and Alrifaae, Bassam and Kowalewski, Stefan and
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Automobil- und
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  doi = { 10.1007/978-3-658-25939-6_65 },
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[KSB+19]

[PDFBIB](#)

Kloock, M. M., Scheffe, P., Botz, L., Maczijewski, J., Alrifaae, B., and Kowalewski, S., "Networked Model Predictive Vehicle Race Control", in *Proc. 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, Piscataway, NJ, 2019, IEEE*, pp. 1552-1557.

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Bibtex entry :

```
@inproceedings { KSB+19,
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IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation
Systems Society },
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[KSM+19]

[PDFBIB](#)

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Bibtex entry :

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@inproceedings { KSM+19,
author = { Kloock, Maximilian Martin and Scheffe, Patrick and
Marquardt, Sascha and Maczjewski, Janis and Alrifaae,
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IEEE-ITSC 2019, ITSS - IEEE Intelligent Transportation
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[KTF19]

[PDFBIB](#)

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

Bibtex entry :

```
@inproceedings { KTF19,
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[KWA+19]

[PDFBIB](#)

Kampmann, A., Wüstenberg, A., Alrifaae, B., and Kowalewski, S., "A Portable Implementation of

the Real-Time Publish-Subscribe Protocol for Microcontrollers in Distributed Robotic Applications", in *Proc. 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, Piscataway, NJ, 2019, IEEE, pp. 443-448.*

A Portable Implementation of the Real-Time Publish-Subscribe Protocol for Microcontrollers in Distributed Robotic Applications

Bibtex entry :

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@inproceedings { KWA+19,
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[PAS+19]

[PDFBIB](#)

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Deep Learning of Arrhythmia Analysis Based on Convolutional Neural Network

Bibtex entry :

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@article { PAS+19,
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author = { Pomprapa, Anake and Ahmed, Waqar and Stollenwerk, André
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    Neural Network },
journal = { International journal of bioelectromagnetism : IJBEM },
publisher = { International Society for Bioelectromagnetism },
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url = { http://www.ijbem.org/volume21/number1/48-58.pdf },
}
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[Sch19]

PDFBIB

Schommer, J., "Adaptierung des Zeitverhaltens nicht-echtzeitfähiger Software für den Einsatz in zeitheterogenen Netzwerken", PhD Thesis, Aachen, 2019.

Adaptierung des Zeitverhaltens nicht-echtzeitfähiger Software für den Einsatz in zeitheterogenen Netzwerken

Bibtex entry :

```
@phdthesis { Sch19,
author = { Schommer, John },
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Software f{u}r den Einsatz in zeitheterogenen Netzwerken },
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Diagramme },
series = { Aachener Informatik-Berichte },
year = { 2019 },
address = { Aachen },
doi = { 10.18154/RWTH-2020-05324 },
typ = { PUB:(DE-HGF)11 },
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http://publications.rwth-aachen.de/record/789625/files/789625.pdf },
}
```

[SKS+19]

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Smieschek, M., Kobsik, G., Stollenwerk, A., Kowalewski, S., Orlikowsky, T., and Schoberer, M., "Aided Hand Detection in Thermal Imaging Using RGB Stereo Vision", in *Proc. 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, Piscataway, NJ, 2019, IEEE, pp. 6314-6317.*

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Bibtex entry :

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@inproceedings { SKS+19,
  author = { Smieschek, Manfred and Kobsik, Gregor and Stollenwerk,
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    care : 2019 41st Annual International Conference of the IEEE
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    EMB Conference : July 23-27, Berlin / IEEE, EMB ; conference
    editorial board chair: Riccardo Barbieri, Milan, Italy },
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```

[TSF+19]

PDFBIB

Thönnessen, D., Smallbone, N., Fabian, M., Claessen, K., and Kowalewski, S., "Testing Safety PLCs Using QuickCheck", in *Proc. 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, Piscataway, NJ, 2019, IEEE, pp. 1388-1393.*

Testing Safety PLCs Using QuickCheck

Bibtex entry :

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@inproceedings { TSF+19,  
  author = { Th{"o}nnessen, David and Smallbone, Nick and Fabian,  
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  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  
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  typ = { PUB:(DE-HGF)7 },  
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  cin = { 122810 / 120000 },  
  url = { http://publications.rwth-aachen.de/record/761173 },  
 }
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[VK19]

[PDFBIB](#)

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Bibtex entry :

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@inproceedings { VK19,  
  author = { V{"o}lker, Marcus and Kowalewski, Stefan },  
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publisher = { Springer },
pages = { 73-95 },
series = { Lecture notes in computer science },
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Porto
(Portugal), 2019-10-08 - 2019-10-11 },
doi = { 10.1007/978-3-030-32304-2_5 },
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http://publications.rwth-aachen.de/record/768806/files/768806.pdf },
}

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[VKR+19]

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Völker, M., Kloock, M., Rabanus, L., Alrifaae, B., and Kowalewski, S., "Verification of Cooperative Vehicle Behavior using Temporal Logic", *IFAC-PapersOnLine*, vol. 52, iss. 8, pp. 99-104, 2019

Verification of Cooperative Vehicle Behavior using Temporal Logic

Bibtex entry :

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@article { VKR+19,
  author = { V{"o"}lker, Marcus and Kloock, Maximilian and Rabanus,
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  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 },
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[AM18]

PDFBIB

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

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

Bibtex entry :

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@inproceedings { AM18,
  author = { Alrifaae, Bassam and Maczijekowski, Janis },
  title = { Real-time Trajectory optimization for Autonomous Vehicle
    Racing using Sequential Linearization },
  booktitle = { 2018 IEEE Intelligent Vehicles Symposium (IV) : 26-30
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    Systems Society (ITSS)] },
  publisher = { IEEE },
  year = { 2018 },
  address = { Piscataway, NJ },
  organization = { 2018 IEEE Intelligent Vehicles Symposium, Changshu
  (Peoples
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  doi = { 10.1109/IVS.2018.8500634 },
  typ = { PUB:(DE-HGF)7 },
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  url = { http://publications.rwth-aachen.de/record/748563 },
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[BFH+18]

PDFBIB

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

VDI Status Report Testing of Networked Systems for Industrie 4.0

Bibtex entry :

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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
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    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
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    pages = { 1-20 },
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    75395274c78c },
    }

```

[BHK18]

[PDFBIB](#)

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

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

Bibtex entry :

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@inproceedings { BHK18,
    author = { Bohlender, Dimitri and Hamm, Daniel and Kowalewski,
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    booktitle = { Applied computing 2018 : the 33rd Annual ACM
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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,
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    pages = { 1891-1898 },
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organization = { 33rd ACM Symposium on Applied Computing, Pau
(France),
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/752221 },
}
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[BK18]

[PDFBIB](#)

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

Compositional Verification of PLC Software using Horn Clauses and Mode Abstraction

Bibtex entry :

```
@article { BK18,
    author = { Bohlender, Dimitri and Kowalewski, Stefan },
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    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 },
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    url = { http://publications.rwth-aachen.de/record/730763 },
}
```

[BK18a]

[PDFBIB](#)

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

Design and Verification of Restart-Robust Industrial Control Software

Bibtex entry :

```
@inproceedings { BK18a,
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  publisher = { Springer International Publishing },
  pages = { 47-68 },
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}
```

[CMW+18]

[PDFBIB](#)

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Controlled Natural Languages for Hazard Analysis and Risk Assessment

Bibtex entry :

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@inproceedings { CMW+18,
  author = { Chomicz, Paul and Müller-Lerwe, Armin and Wegner, Gtz-Philipp and Busch, Rainer and Kowalewski, Stefan },
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  booktitle = { Controlled Natural Language : Proceedings of the
```

Sixth

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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 University,
United Kingdom) },
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[CMW+18a]

[PDFBIB](#)

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

Controlled Natural Languages for HazardAnalysis and Risk Assessment

Bibtex entry :

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@inproceedings { CMW+18a,
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    booktitle = { Controlled Natural Language : Proceedings of the
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    Ireland, August 27-28, 2018 / edited by Brian Davis
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pages = { 41-51 },
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http://publications.rwth-aachen.de/record/774780/files/774780.pdf },
}

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[GAK18]

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Göbe, F., Aydin, S., and Kowalewski, S., "Applicability of supervisory control theory for the supervision of PLC programs", in *Proc. 2017 22nd IEEE International Conference on Emerging Technologies and Factory Automation : September 12-15, 2017, Limassol, Cyprus / ABB, IEEE, IES, University of Cyprus*, [Piscataway, NJ], 2018 in IEEE International Conference on Emerging Technologies and Factory Automation-ETFA, IEEE, p. 8.

Applicability of supervisory control theory for the supervision of PLC programs

Bibtex entry :

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@inproceedings { GAK18,
    author = { G{"o}be, Florian and Aydin, Selin and Kowalewski, Stefan },
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    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 },
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    year = { 2018 },
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    organization = { 22nd IEEE International Conference on Emerging Technologies
and Factory Automation, Limassol (Cyprus), 2017-09-12 - 2017-09-15 },
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[GSA+18]

[PDFBIB](#)

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

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

Bibtex entry :

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@article { GSA+18,
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  pages = { 121-126 },
  volume = { 51 },
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  address = { Laxenburg },
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  url = { http://publications.rwth-aachen.de/record/731577 },
}
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[KRG+18]

[PDFBIB](#)

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

Systems engineering with SysML : The path to the future?

Bibtex entry :

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@article { KRG+18,
  author = { Kriebel, Stefan and Richenhagen, Johannes Martin and
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Granrath, Christian and Kugler, Christopher },
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cin = { 412310 / 121510 / 122810 / 120000 },
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}
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[KRG+18a]

[PDFBIB](#)

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Systems Engineering mit SysML : Der Weg in die Zukunft?

Bibtex entry :

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@article { KRG+18a,
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title = { Systems Engineering mit SysML : Der Weg in die Zukunft?
},
journal = { Motortechnische Zeitschrift : MTZ },
publisher = { Springer Fachmedien },
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[KSK+18]

[PDFBIB](#)

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

A long-term setup for kidney perfusion

Bibtex entry :

```
@inproceedings { KSK+18,
  author = { K{"u}hn, Jan and Stollenwerk, André and Kowalewski,
Stefan
    and Fabry, Gregor and Grzanna, Tim and Doorschodt, Benedict
and Tolba, René H. and Rossaint, Rolf and Bleilevens,
Christian },
  title = { A long-term setup for kidney perfusion },
  year = { 2018 },
  organization = { 52nd Annual Conference of the German Society for
Biomedical
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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) },
}
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[MVC+18]

[PDFBIB](#)

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

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

Bibtex entry :

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@article { MVC+18,
  author = { Merchant, Farhad and Vatwani, Tarun and Chattopadhyay,
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    Algorithm-Architecture Co-Design for Acceleration of QR
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  url = { http://publications.rwth-aachen.de/record/731326 },
}

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[OK18]

[PDFBIB](#)

Obster, M. and Kowalewski, S., "A live static code analysis architecture for PLC software", in *Proc. 2017 22nd IEEE International Conference on Emerging Technologies and Factory Automation : September 12-15, 2017, Limassol, Cyprus / ABB, IEEE, IES, University of Cyprus, [Piscataway, NJ]*, 2018 in IEEE International Conference on Emerging Technologies and Factory Automation-ETFA, IEEE, p. 4.

A live static code analysis architecture for PLC software

Bibtex entry :

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@inproceedings { OK18,
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Technologies
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[PAS+18]

PDFBIB

Pomprapa, A., Ahmed, W., Stollenwerk, A., Kowalewski, S., Uguz, D. U., and Leonhardt, S., "Arrhythmia Analysis in a Non-contact cECG Chair using Convolutional Neural Network", in *Proc. 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 Universität Berlin, Germany, Dr. Marian Walter, RWTH Aachen University, Germany, Benjamin Hentze, RWTH Aachen University, Germany Markus Lüken, RWTH Aachen University, Germany ; Scientific Committee for ICBEM 2018 in Aachen: Prof. Catherine Disselhorst-Klug, RWTH Aachen University, Germany [und 27 weitere], Aachen, 2018, p. 4.*

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

Bibtex entry :

```
@inproceedings { PAS+18,  
  author = { Pomprapa, Anake and Ahmed, Waqar and Stollenwerk, André  
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Steffen },  
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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  
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http://publications.rwth-aachen.de/record/723536/files/723536.pdf },
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}

[PAS+18a]

[PDFBIB](#)

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

Classification of Obstructive Sleep Apnea Using Machine Learning

Bibtex entry :

```
@article { PAS+18a,
  author = { Pomprapa, Anake and Ahmed, W. and Sayani, M. S. and
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  title = { Classification of Obstructive Sleep Apnea Using Machine
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[PAS+18b]

[PDFBIB](#)

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

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

Bibtex entry :

```
@article { PAS+18b,  
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[SBK18]

[PDFBIB](#)

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

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

Bibtex entry :

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@article { SBK18,  
  author = { Stollenwerk, André and Buglowski, Mateusz and K{"u}hn,  
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[SGT+18]

[PDFBIB](#)

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

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

Bibtex entry :

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@inproceedings { SGT+18,
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[SHS+18]

[PDFBIB](#)

Smieschek, M., Hinrichs, T., Stollenwerk, A., Kowalewski, S., and Preuß, R., "A New Condition Indicator for Slow-Rotating Roller Chains based on the Angle and Torque of the Driving Motor", in *Proc. 2018 IEEE 14th International Conference on Automation Science and Engineering*

(CASE) : 20-24 Aug. 2018 / general chair: Birgit Vogel-Heuser (Technical University of Munich) ; publisher: IEEE, Piscataway, NJ, 2018, IEEE, pp. 642-644.

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

Bibtex entry :

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@inproceedings { SHS+18,
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}
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[SK18]

[PDFBIB](#)

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

Mode-Aware Concolic Testing for PLC Software

Bibtex entry :

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@inproceedings { SK18,
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author = { Simon, Hendrik and Kowalewski, Stefan },
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[STK18]

[PDFBIB](#)

Simon, H., Triefenbach, L., and Kowalewski, S., "Structural Concolic Testing for Sequential Function Chart", *IFAC-PapersOnLine*, vol. 51, iss. 7, pp. 422-427, 2018

Structural Concolic Testing for Sequential Function Chart

Bibtex entry :

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@article { STK18,
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Castellammare
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[Ter18]

[PDFBIB](#)

Terber, M., "Real-world deployment and evaluation of synchronous programming in reactive embedded systems", PhD Thesis, Aachen, 2018.

Real-world deployment and evaluation of synchronous programming in reactive embedded systems

Bibtex entry :

```
@phdthesis { Ter18,  
  author = { Terber, Matthias },  
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[TK18]

[PDFBIB](#)

Thönnessen, D. and Kowalewski, S., "Agiles Testen von cyber-physischen Produktionssystemen : Einsatz von SPS-Sprachen zur Testfallbeschreibung", *Atp-Edition : automatisierungstechnische Praxis*, vol. 60, iss. 3, pp. 46-55, 2018

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```
@article { TK18,  
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[TK18a]

[PDFBIB](#)

Thönnessen, D. and Kowalewski, S., "Using PLC Programming Languages for Test-Case Specification of Hardware-in-the-loop Tests", in *Proc. [Modellbasierte Entwicklung eingebetteter Systeme, MBEES 2018, 2018-04-16 - 2018-04-18, Hamburg, Germany]*, 2018, fortiss Technischer Bericht, pp. 41-50.

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

Bibtex entry :

```

@inproceedings { TK18a,
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[TRR+18]

[PDFBIB](#)

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

[PDFBIB](#)

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Matching Discrete Signals for Hardware-in-the-Loop-Testing of PLCs

Bibtex entry :

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@article { TRR+18a,
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[TRR+18b]

[PDFBIB](#)

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

Correctness Properties and Exemplified Applicability of a Signal Matching Algorithm with Multidimensional Tolerance Specifications

Bibtex entry :

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

[PDFBIB](#)

Ulewicz, S., Vogel-Heuser, B., Simon, H., Bohlender, D., Obster, M., and Kowalewski, S., "A priori test coverage estimation for automated production systems : Using generated behavior models for coverage calculation", in *Proc. 2017 22nd IEEE International Conference on Emerging Technologies and Factory Automation : September 12-15, 2017, Limassol, Cyprus / ABB, IEEE, IES, University of Cyprus*, [Piscataway, NJ], 2018 in IEEE International Conference on Emerging Technologies and Factory Automation-ETFA, IEEE, p. 4.

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

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

[PDFBIB](#)

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

Cooperative automation of extracorporeal gas exchange and artificial ventilation

Bibtex entry :

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

[PDFBIB](#)

Woopen, T., Lampe, B., Böddeker, T., Eckstein, L., Kampmann, A., Alrifaae, B., Kowalewski, S., Moormann, D., Stolte, T., Jatzkowski, I., Maurer, M., Möstl, M., Ernst, R., Ackermann, S., Amersbach, C., Winner, H., Püllen, D., Katzenbeisser, S., Leinen, S., Becker, M., Stiller, C., Furmans, K., Bengler, K., Diermeyer, F., Lienkamp, M., Keilhoff, D., Reuss, H., Buchholz, M., Dietmayer, K., Lategahn, H., Siepenkötter, N., Elbs, M., v. Hinüber, E., Dupuis, M., and Hecker, C., "UNICARagil - Disruptive Modular Architectures for Agile, Automated Vehicle Concepts", in *Proc. 27. Aachen Colloquium Automobile and Engine Technology : October 8th-10th, 2018, Eurogress Aachen, Germany / scientific management: Univ.-Prof. Dr.-Ing. Lutz Eckstein, Univ.-*

Prof. Dr.-Ing. Stefan Pischinger ; organizational management: Benedikt Hammermüller (M. Sc.), Dipl.-Ing. Rainer Wolsfeld ; organized by: Institute for Automotive Engineering (RWTH Aachen), Institute for Combustion Engines (RWTH Aachen), Aachen, 2018, Institute for Automotive Engineering, RWTH Aachen ; Aachen : Institute for Combustion Engines, RWTH Aachen, pp. 663-694.

UNICARagil - Disruptive Modular Architectures for Agile, Automated Vehicle Concepts

Bibtex entry :

```
@inproceedings { WLB+18,
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scientific management: Univ.-Prof. Dr.-Ing. Lutz Eckstein,
Univ.-Prof. Dr.-Ing. Stefan Pischinger ; organizational
management: Benedikt Hammerm{"u}ller (M. Sc.), Dipl.-Ing.
Rainer Wolsfeld ; organized by: Institute for Automotive
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[WSA+18]

[PDFBIB](#)

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

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

Bibtex entry :

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@article { WSA+18,
  author = { Winter, Alfred and St{"a}ubert, Sebastian and Ammon,
Danny
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[AMA17]

[PDFBIB](#)

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

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Bibtex entry :

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@inproceedings { AMA17,
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  organization = { 2017 IEEE Conference on Control Technology and Applications, Mauna Lani, HI (USA), 2017-08-27 - 2017-08-30 },
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[BHK+17]

[PDFBIB](#)

Brendle, C., Hackmack, K. -F., Kühn, J., Wardeh, M. N., Janisch, T., Kopp, R., Rossaint, R., Stollenwerk, A., Kowalewski, S., Leonhardt, S., Walter, M., and Misgeld, B. J. E., "Closed-loop control of extracorporeal oxygen and carbon dioxide gas transfer", *Control engineering practice*, vol. 59, pp. 173-182, 2017

Closed-loop control of extracorporeal oxygen and carbon dioxide gas transfer

Bibtex entry :

```
@article { BHK+17,
  author = { Brendle, Christian and Hackmack, K.-F. and K{"u}hn, Jan
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  title = { Closed-loop control of extracorporeal oxygen and carbon
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}
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[BHK17]

[PDFBIB](#)

Ben Makhlof, I., Hansen, N., and Kowalewski, S., "HyReach: A Reachability Tool for Linear Hybrid Systems Based on Support Functions", in *Proc. ARCH16. 3rd International Workshop on Applied Verification for Continuous and Hybrid Systems / Editors: Goran Frehse and Matthias Althoff*, 2017 in EPiC Series in Computing, pp. 68-79.

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

Bibtex entry :

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@inproceedings { BHK17,
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    typ = { PUB:(DE-HGF)7 },
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[BMK+17]

[PDFBIB](#)

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

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

Bibtex entry :

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@article { BMK+17,
    author = { Brendle, Christian and M{"u}lders, Thorsten and
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}

```

[CMW+17]

[PDFBIB](#)

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  title = { Towards the Use of Controlled Natural Languages in Hazard
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  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.) },
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  Stuttgart (Germany), 2017-05-30 - 2017-05-31 },
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[DDK+17]

[PDFBIB](#)

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@inproceedings { DDK+17,
  author = { Dankert, Jens and Dernehl, Christian and Kusmenko,
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Februar 2017, Stadthalle, Braunschweig / ITS automotive nord
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Automobile.pdf?PHPSESSID=eb66ba2042d9500e5135d33f6b7575af },
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[DKK17]

[PDFBIB](#)

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Case studies on automated verification with slope boundaries for block diagrams

Bibtex entry :

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

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[DSF+17]

[PDFBIB](#)

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eNav: A Suitable Navigation System for the Disabled

Bibtex entry :

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author = { Dzafic, Dzenan and Schoonbrood, Pierre and Franke,
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booktitle = { Ambient Assisted Living : 9. AAL-Kongress,
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Germany, April 20 - 21, 2016 / edited by Reiner Wichert,
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[DWS+17]

[PDFBIB](#)

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[DWS+17a]

[PDFBIB](#)

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@inproceedings { DWS+17a,  
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[Ger17]

[PDFBIB](#)

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

Bibtex entry :

```
@phdthesis { Ger17,  
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[HWK+17]

[PDFBIB](#)

Hansen, N., Wiechowski, N., Kugler, A., Kowalewski, S., Rambow, T., and Busch, R., "Model-in-the-Loop and Software-in-the-Loop Testing of Closed-Loop Automotive Software with Arttest", in *Proc. Informatik 2017 - Bände I-III : Tagung vom 25.-29. September 2017 in Chemnitz / Maximilian Eibl, Martin Gaedke (Hrsg.)*, Bonn, 2017 in GI-Edition : lecture notes in informatics. Proceedings, Gesellschaft für Informatik, pp. 1537-1549.

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

Bibtex entry :

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@inproceedings { HWK+17,  
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Closed-Loop Automotive Software with Arttest },  
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25.-29.  
September 2017 in Chemnitz / Maximilian Eibl, Martin Gaedke  
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[Kal17]

[PDFBIB](#)

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

A real-time capable, open-source-based platform for off-

the-shelf embedded devices

Bibtex entry :

```
@phdthesis { Kal17,
  author = { Kalkov, Igor },
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[KBS+17]

[PDFBIB](#)

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

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

Bibtex entry :

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@article { KBS+17,
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```

[KGK17]

[PDFBIB](#)

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

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    Real-Time and Embedded systems, Niagara Falls, NY (USA),
    2014-10-13 - 2014-10-14 },
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[KKR+17]

[PDFBIB](#)

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[Leo17]

[PDFBIB](#)

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  author = { Leonhardt, Steffen },  
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[NKM+17]

[PDFBIB](#)

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Continuous process for the validation of transmission controls

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@inproceedings { NKM+17,
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}
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[SAB+17]

[PDFBIB](#)

Schupp, S., Ábrahám, E., Ben Makhlof, I., and Kowalewski, S., "HyPro : A C++ Library of State Set Representations for Hybrid Systems Reachability Analysis", in *Proc. NASA formal methods : 9th international symposium, NFM 2017, Moffett Field, CA, USA, May 16-18, 2017 : proceedings / Clark Barrett, Misty Davies, Temesghen Kahsai (eds.)*, Cham, 2017 in Lecture Notes in Computer Science, Springer, pp. 288-294.

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

Bibtex entry :

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  booktitle = { NASA formal methods : 9th international symposium,
    NFM 2017,
    Moffett Field, CA, USA, May 16-18, 2017 : proceedings /
    Clark Barrett, Misty Davies, Temesghen Kahsai (eds.) },
  publisher = { Springer },
  pages = { 288-294 },
  series = { Lecture Notes in Computer Science },
  year = { 2017 },
  address = { Cham },
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    Field, CA
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[SKS+17]

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@article { SKS+17,
  author = { Stollenwerk, André and Kopp, R{"u}dger and Sehl,
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[SPD+17]

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  author = { Schmidt, Teresa and Philipson, Ralf and Dzafic, Dzenan
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International Conference, DHM 2017, Held as Part of HCI
International 2017, Vancouver, BC, Canada, July 9-14, 2017,
Proceedings, Part II / edited by Vincent G. Duffy },
  publisher = { Springer International Publishing },
  pages = { 365-383 },
  series = { Lecture Notes in Computer Science },
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  doi = { 10.1007/978-3-319-58466-9_33 },
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[SSK+17]

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

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sponsors: IEEE, EMB },  
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2017-05-09 - 2017-05-12 },  
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[WKK+17]

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  author = { Walter, Marian and Kunczik, Janosch and K{"u"}hn, Jan  
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  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
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  the European Medical and Biological Engineering Conference
  (EMBEC) and the Nordic-Baltic Conference on Biomedical
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  Editors: Jennika Karvinen, Janne Koivisto, Sampo Tuukkanen,
  Jari Viik },
publisher = { BioMediTech Institute and Faculty of Biomedical
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  Engineering Tampere University of Technology },
pages = { 365, 150-150 },
year = { 2017 },
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Biological
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  Conference on Biomedical Engineering and Medical Physics
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cin = { 611010 / 122810533000-3 / 120000 },
url = { http://embec2017.org/2017/07/07/final-abstract-book/ },
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  author = { Wiechowski, Norbert and Rambow, Thomas and Busch, Rainer
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  title = { Arttest - a New Test Environment for Model-Based Software
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  journal = { SAE technical paper },
  publisher = { SAE International },
  volume = { 2017/01/0001-2017/01/1709 },
  year = { 2017 },
  address = { [Warrendale, PA] },
  issn = { 0148-7191 },
  organization = { SAE World Congress Experience, Detroit, Mich.
(USA),
  2017-04-04 - 2017-04-06 },
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typ = { PUB:(DE-HGF)16 },
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[Ben16]

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

[PDFBIB](#)

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    Steffen and Walter, Marian },
title = { Continuous gas transfer monitoring during extracorporeal
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journal = { Biomedical signal processing and control },
publisher = { Elsevier },
pages = { 321-330 },
volume = { 31 },
year = { 2016 },
address = { Amsterdam [u.a.] },
issn = { 1746-8094 },
doi = { 10.1016/j.bspc.2016.08.023 },
typ = { PUB:(DE-HGF)16 },
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cin = { 611010 / 122810 / 120000533000-2 },
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    author = { Biallas, Sebastian },
    othercontributors = { Kowalewski, Stefan and Fay, Alexander },
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    publisher = { Shaker Verlag },
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    pages = { 1 Online-Ressource (x, 153 Seiten) : Illustrationen,
        Diagramme },
    series = { Aachener Informatik Berichte },
    year = { 2016 },
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http://publications.rwth-aachen.de/record/668156/files/668156.pdf },
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  author = { Banila, Madalina and Kowalewski, Stefan },
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    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
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    Magdeburg
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  booktitle = { 2016 13th International Workshop on Discrete Event Systems
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  publisher = { IEEE },
  pages = { 432-437 },
  year = { 2016 },
  address = { Piscataway, NJ },
  organization = { 13th International Workshop on Discrete Event Systems, Xi'an
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  url = { http://publications.rwth-aachen.de/record/679431 },
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[BSK+16]

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title = { Symbolische Ausf{\u}hrung zum Testen von SPS-Programmen
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17. Branchentreff der Mess- und Automatisierungstechnik :
Baden-Baden, 07. und 08. Juni 2016 / VDI/VDE Mess- und
Automatisierungstechnik },
publisher = { VDI Verlag GmbH },
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typ = { PUB:(DE-HGF)7 },
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author = { Bohlender, Dimitri and Simon, Hendrik and Kowalewski,
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Beschreibungssprachen zur Modellierung und Verifikation von
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Freiburg im Breisgau 1.-2. M{\a}rz 2016 / Ralf Wimmer
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Beschreibungssprachen
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zur Modellierung und Verifikation von Schaltungen und
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url = {
http://publications.rwth-aachen.de/record/573821/files/573821.pdf },
}

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Bibtex entry :

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  url = { http://publications.rwth-aachen.de/record/696194 },
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  author = { Dernehl, Christian and Hansen, Norman and Kowalewski,
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: Joint 21st International Workshop on Formal Methods for
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2016, Pisa, Italy, September 26-28, 2016 : proceedings /
Maurice H. ter Beek, Stefania Gnesi, Alexander Knapp (eds.) },
  publisher = { Springer International Publishing },
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Critical Systems, Pisa (Italy), 2016-09-26 - 2016-09-28 },
  doi = { 10.1007/978-3-319-45943-1_2 },
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[DHK16a]

[PDFBIB](#)

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Combining Abstract Interpretation with Symbolic

Execution for a Static Value Range Analysis of Block Diagrams

Bibtex entry :

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@inproceedings { DHK16a,
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  pages = { 137-154 },
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[DKK16]

[PDFBIB](#)

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  author = { Dernehl, Christian and K{"u}hn, Jan and Kowalewski,
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    : Saint-Malo, France, October 3, 2016 / edited by Michalis
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[DKS+16]

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Prof. Dr.
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[DLS+16]

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Das Barrierenerkennungssystem von eNav

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@inproceedings { DLS+16,
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[GHD+16]

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[GK16]

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[GK16a]

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[GNK16]

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[GTN+16]

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    sponsored by IEEE - Control Systems Society },
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[KBS+16]

[PDFBIB](#)

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Bibtex entry :

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

[PDFBIB](#)

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Bibtex entry :

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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] },
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[KVS+16]

[PDFBIB](#)

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Bibtex entry :

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and Kowalewski, Stefan and Rossaint, Rolf and Kopp,
R{"u}dger and Janisch, Thorsten },
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ECLA-Therapie },
booktitle = { AUTOMED 2016 : Workshop : Wismar, 22.-23. September

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  DGBMT - Deutsche Gesellschaft f{"u}r Biomedizinische
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  Automatisierungstechnik/Mechatronik },
  pages = { 2 Seiten },
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2016, Wismar
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[SK16]

[PDFBIB](#)

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Bibtex entry :

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[SSJ+16]

[PDFBIB](#)

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[SSS16]

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[SSS16a]

[PDFBIB](#)

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2nd Workshop on Fail Safety in Medical Cyber-Physical

Systems (FS-MCPS)

Bibtex entry :

```
@inproceedings { SSS16a,
  author = { Schlaefer, Alexander and Schupp, Sibylle and
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  Software
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  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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```

[TSN+16]

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Conveying system with an automatic tethering function

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@techreport { TSN+16,
  author = { Th{"o}nnessen, David and Schweigler, Martin and Ney,
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[WBK+16]

[PDFBIB](#)

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Assistive Control of Extracorporeal Oxygenation Systems

Bibtex entry :

```
@inproceedings { WBK+16,
  author = { Walter, Marian and Brendle, Christian and K{"u}hn, Jan
and
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}
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[ZAB+16]

[PDFBIB](#)

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

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Bibtex entry :

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@proceedings { ZAB+16,
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    Riehle, Dirk and Schaefer, Ina and Scheuermann, Constantin
    and Schlaefer, Alexander and Schupp, Sibylle and Seitz,
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[BFS+15]

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Automatic Error Cause Localization of Faulty PLC Programs

Bibtex entry :

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@article { BFS+15,
  author = { Biallas, Sebastian and Friedrich, Nico and Simon,
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[BGK15]

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in
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url = { http://publications.rwth-aachen.de/record/565384 },
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[BHK+15]

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    des Lungenversagens (ECLA-VENT) (DFG-PAK-138/2) },
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[BK15]

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@inbook { BK15,
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    author = { Biallas, Sebastian and Simon, Hendrik and Kowalewski,
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Automatisierungstechnik ; Kongresshaus Baden-Baden, 11. und
12. Juni 2015 / VDI/VDE-Gesellschaft Mess- und
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[CSB+15]

[PDFBIB](#)

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  author = { Chen, Xin and Schupp, Stefan and Ben Makhoulf, Ibtissem
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  title = { A Benchmark Suite for Hybrid Systems Reachability
Analysis },
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  Pasadena, Calif., USA, April 27-29, 2015, Proceedings /
  edited by Klaus Havelund, Gerard Holzmann, Rajeev Joshi },
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[DHG+15]

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Bibtex entry :

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Oktober
2015 in Cottbus / Douglas W. Cunningham ... (Hrsg.) },
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pages = { 1649-1660 },
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year = { 2015 },
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Informatik,
Cottbus (Germany), 2015-09-28 - 2015-10-02 },
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reportid = { RWTH-CONV-207913 },
cin = { 122810 / 120000 },
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[Dia15]

[PDFBIB](#)

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Experimental validation and mathematical analysis of cooperative vehicles in a platoon

Bibtex entry :

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@phdthesis { Dia15,
author = { Diab, Hilal },
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[DKF+15]

[PDFBIB](#)

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Routing über Flächen mit SpiderWebGraph

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[dMK+15]

[PDFBIB](#)

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@article { dMK+15,
  author = { de Brouwer, P. and Mager, Ilona and Kopp, R{\u}dger and
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}

[FKL15]

[PDFBIB](#)

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Testing life cycle-related properties of mobile applications

Bibtex entry :

```
@techreport { FKL15,
  author = { Franke, Dominik and Kowalewski, Stefan and Lichter,
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}
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[GSK15]

[PDFBIB](#)

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Entwicklungs eingebetteter Systeme XI / Matthias Riebisch,  
Michaela Huhn, Jan Philipps, Bernhard Sch{"a}tz },  
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[GTD15]

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

[PDFBIB](#)

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  author = { Hauck-Stattelmann, Stefan and Biallas, Sebastian and
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  title = { Analyzing the Restart Behavior of Industrial Control
    Applications },
  booktitle = { FM 2015: formal methods : 20th international
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    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
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[JMR+15]

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Bibtex entry :

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  author = { Jawawi, Dayang N. A. and Mamat, Rosbi and Ridzuan,
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[KGK15]

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  author = { Kalkov, Igor and Gurchian, Alexandru and Kowalewski,
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            - ACM Press New York, New York, USA, 2015 },
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[KKO+15]

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  author = { Kowalewski, Stefan and Kalkov, Igor and Obster, Mathias
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[KSB+15]

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  author = { K{"u}hn, Jan and Stollenwerk, André and Brendle,  
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[KSK+15]

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  author = { K{"u}hn, Jan and Stollenwerk, André and Kowalewski,  
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https://www.di-verlag.de/de/Zeitschriften/atp-edition/2015/10/Pulsatile
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  in Computing and Communications ; 14, Helsinki (Finland),
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[KSS+15]

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  author = { K{\u}hn, Jan and Schoonbrood, Pierre and Stollenwerk,  
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[KWS+15]

[PDFBIB](#)

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  author = { K{"u}hn, Jan and W{"u}bbels, Nico and Stollenwerk,
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[Pol15]

[PDFBIB](#)

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@phdthesis { Pol15,
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  series = { Aachener Informatik-Berichte },
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http://publications.rwth-aachen.de/record/561326/files/561326.pdf },
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[SAC+15]

[PDFBIB](#)

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year = { 2015 },
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[SFB+15]

[PDFBIB](#)

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Bibtex entry :

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

[PDFBIB](#)

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[SLR+15]

[PDFBIB](#)

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[AFK+14]

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  author = { Armoush, Ashraf and Franke, Dominik and Kalkov, Igor and  
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  France, 2014] / Conference Editor: Lesage, Jean-Jacques,
  Faure, Jean-Marc, Cury, Jose E. R., Lennartson, Bengt },
publisher = { IFAC },
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[DBB+14]

[PDFBIB](#)

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Towards an Indoor Traffic Report - Requirements for Dynamic Route Planning for Wheelchair Users

Bibtex entry :

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@inproceedings { DBB+14,
  author = { Dzafic, Dzenan and Bitsch, J.ó Ágila and Baumeister,
Danni
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  title = { Towards an Indoor Traffic Report - Requirements for
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  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 },
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  Indoor Navigation, Busan (South Korea), 2014-10-27 -

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  author = { Dzafic, Dzenan and Franke, Dominik },
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    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 },
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energieeffizienten Routen von Elektrorollstühlen

Bibtex entry :

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  booktitle = { Angewandte Geoinformatik 2014 : Beitr{\\"a}ge zum 26.  
AGIT-Symposium Salzburg / Strobl/ Blaschke/Griesebner/Zagl  
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[FAK+14]

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  author = { F{\\"o}rster, Marc and Auerswald, Marko and Keldenich,  
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  title = { Semantic interfaces for automotive software components:  
exemplary development & validation of a practical  
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  url = { http://publications.rwth-aachen.de/record/752291 },  
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  author = { Franke, Dominik and Kowalewski, Stefan },
  title = { Concept and Experiences on Using a Wiki-Based System for
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  education, innovation, and sustainability : SEFM 2012
  Satellite Events, InSuEdu, MoKMaSD, and OpenCert,
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  Alexeis Garcia-Perez; Panagiotis Katsaros; Siraj Ahmed
  Shaikh; Ioannis Stamelos (eds.) },
  publisher = { Springer },
  pages = { 140-146 },
  volume = { 7991 },
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  address = { Berlin [u.a.] },
  doi = { 10.1007/978-3-642-54338-8_11 },
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  cin = { 120000 / 122810 },
  url = { http://publications.rwth-aachen.de/record/225247 },
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author = { F{"o}rster, Marc },
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Quantitative
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booktitle = { IEEE International Symposium on Software Reliability
Engineering workshops (ISSREW), 2014 : 3 - 6 Nov. 2014,
Naples, Italy ; proceedings },
publisher = { IEEE },
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Reliability
Engineering Workshops, Naples (Italy), 2014-11-03 -
2014-11-06 },
doi = { 10.1109/ISSREW.2014.74 },
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cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/462802 },
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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 },
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typ = { PUB:(DE-HGF)11 },
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http://publications.rwth-aachen.de/record/464374/files/5296.pdf },  
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[JGN14]

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  author = { Jansen, Christina and G{"o}be, Florian and Noll, Thomas  
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    Pointer-Manipulating Programs },  
  booktitle = { Graph transformation : 7th international conference,  
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    2014 ; proceedings / Holger Giese ... (eds.) },  
  publisher = { Springer },  
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[KGK14]

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Stefan },  
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Java
Technologies for Real-time and Embedded Systems : JTRES 2014
: Niagara Falls, NY, USA, October 13th-14th, 2014 },
publisher = { ACM },
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year = { 2014 },
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for
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2014-10-13 - 2014-10-14 },
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cin = { 120000 / 122810 },
url = { http://publications.embedded.rwth-aachen.de/file/5g },
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Editorial for the Software Engineering 2013 Conference

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author = { Kowalewski, Stefan and Ringert, Jan Oliver and Rumpe,
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journal = { Computer science - research and development },
publisher = { Springer },
year = { 2014 },
address = { Berlin },
issn = { 1865-2034 },
doi = { 10.1007/s00450-014-0274-8 },
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url = { http://publications.rwth-aachen.de/record/479562 },
}

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[Mer14]

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Bibtex entry :

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@phdthesis { Mer14,
  author = { Merschen, Daniel },
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  pages = { XIV, 136 S. : graph. Darst. },
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http://publications.rwth-aachen.de/record/229247/files/4967.pdf },
}
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[OKK14]

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

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@inproceedings { OKK14,
  author = { Obster, Mathias and Kalkov, Igor and Kowalewski, Stefan },
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    Industrial Electronics Society] },
  publisher = { IEEE },
  pages = { 8 Seiten },
  year = { 2014 },
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doi = { 10.1109/ETFA.2014.7005218 },
typ = { PUB:(DE-HGF)7 },
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cin = { 120000 / 122810 },
url = { http://publications.rwth-aachen.de/record/444615 },
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[Pal14]

[PDFBIB](#)

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Time continuous behaviour comparison based on abstract models

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@phdthesis { Pal14,
  author = { Palczynski, Jacob },
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http://publications.rwth-aachen.de/record/229310/files/4941.pdf },
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Runtime verification of microcontroller binary code

Bibtex entry :

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  author = { Reinbacher, Thomas and Brauer, J{"o}rg and Horauer,
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    and Steininger, Andreas and Kowalewski, Stefan },
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Runtime verification of embedded real-time systems

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@article { RFB14,
    author = { Reinbacher, Thomas and Fuegger, Matthias and Brauer,
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[SBS+14]

[PDFBIB](#)

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

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Bibtex entry :

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[SKB+14]

[PDFBIB](#)

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Model-based supervision of a blood pump

Bibtex entry :

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[VDF+14]

[PDFBIB](#)

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Bibtex entry :

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  author = { Vogel-Heuser, Birgit and Diedrich, Christian and Fay,
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    Wollschlaeger, Martin and G{\o}hner, Peter },
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  pages = { 440-451 },
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}

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[WSL+14]

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

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Bibtex entry :

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@inbook { WSL+14,
  author = { Weinstock, Jan Henrik and Schumacher, Christoph and
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  booktitle = { Models, Methods, and Tools for Complex Chip Design :
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  publisher = { Springer International Publishing [u.a.] },
  pages = { 69-88 },
  volume = { 265 },
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  address = { Cham ; s.l. },
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```

[BBK13]

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  author = { Biallas, Sebastian and Bohlender, Dimitri and
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    P. 1 },
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[BDK13]

[PDFBIB](#)

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@inproceedings { BDK13,
  author = { Ben Makhlof, Ibtissem and Diab, Hilal and Kowalewski,
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            June 2013 ; [conference proceedings] / [sponsor:
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            IEEE Control Systems Society; IEEE Robotics & Automation
            Society ... Ed. by Panos Antsaklis ...]. - 1-2 },
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  url = { http://publications.rwth-aachen.de/record/226951 },
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[BGK13]

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Predicate Abstraction for Programmable Logic Controllers

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@inbook { BGK13,
  author = { Biallas, Sebastian and Giacobbe, Mirco and Kowalewski,
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  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 },
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    author = { Brauer, J{"o"}rg and Kowalewski, Stefan },
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procedures },
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    pages = { IV, 207 S. : graph. Darst. },
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http://publications.rwth-aachen.de/record/229199/files/4836.pdf },
}
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```

[BKK13]

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Abstract interpretation of microcontroller code: Intervals meet congruences

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@article { BKK13,  
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  url = { http://publications.rwth-aachen.de/record/752296 },
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  title = { Entwicklung und Evaluation eines Navigationssystems
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  booktitle = { Informatiktage 2013 : smart life - dank Informatik ;
  fachwissenschaftlicher Informatik-Kongress 22. und 23.
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  Informatik (Hrsg.). [Red.: Ludger Porada] },
  publisher = { Gesellschaft f{"u}r Informatik e.V. },
  pages = { 185-188 },
  volume = { 12 },
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  year = { 2013 },
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url = { http://publications.rwth-aachen.de/record/228156 },
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  url = { http://publications.rwth-aachen.de/record/226262 },
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[PDFBIB](#)

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  author = { Gerlitz, Thomas and Kalkov, Igor and Schommer, John F.  
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  booktitle = { 11th International Workshop on Java Technologies for  
Real-time and Embedded Systems : JTRES 2013 ; 9-10 October  
2013, Karlsruhe, Germany },  
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  pages = { 108-117 },  
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Bibtex entry :

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  author = { H{"a}nsch, Paul and Diab, Hilal and Ben Makhlouf,
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    Information Technology, Bonn / Gesellschaft f{"u}r
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    pages = { 83-86 },
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    author = { Kowalewski, Stefan and Philippou, A. and Brauer, J. },
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    url = { http://publications.rwth-aachen.de/record/752289 },
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[PDFBIB](#)

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    Goetz Botterweck },
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}

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    author = { Neugebauer, Johannes and Hanrath, Michael and Mitric,
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    title = { Theoretische Chemie 2012 },
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}

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[PMS+13]

[PDFBIB](#)

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@article { PMS+13,
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http://publications.rwth-aachen.de/record/231825/files/231825.pdf },
}
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development of automotive control systems in small and
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[SGK13]

[PDFBIB](#)

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Load and Quality Cooperation for Distributed Embedded Systems Using Different Modes of Operation

Bibtex entry :

```
@inproceedings { SGK13,
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url = { http://jrwrtc.science.uva.nl/JRWRTC13_proceedings.pdf },
}
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[Sto13]

[PDFBIB](#)

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Ein modellbasiertes Sicherheitskonzept für die extrakorporale Lungenunterstützung

Bibtex entry :

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@phdthesis { Sto13,
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[VK13]

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@article { VK13,
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[WBS+13]

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Walter, M., Brendle, C., Stollenwerk, A., Kopp, R., Arens, J., Bensberg, R., and Leonhardt, S., "Patient oriented closed loop control of extracorporeal lung assist", in *Proc. Journal of critical care*, New York, NY, 2013, vol. 28, Elsevier, p. e8-e9.

Patient oriented closed loop control of extracorporeal lung assist

Bibtex entry :

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@inproceedings { WBS+13,
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[WGM+13]

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Wiechowski, N., Gerlitz, T., Merschen, D., and Kowalewski, S., "Ein Ansatz zum merkmalsbasierten Konsistenzmanagement in der Produktlinienentwicklung" Bonn: Gesellschaft für Informatik e.V., 2013, vol. 12, pp. 2502-2516.

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

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management of extracorporeal lung assist

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@article { WSB+13,  
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Bibtex entry :

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@inproceedings { BBK+12,  
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@article { BBK12a,
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[BBK12b]

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Bibtex entry :

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Bibtex entry :

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Bibtex entry :

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@inproceedings { BK12,
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[BK12a]

[PDFBIB](#)

Brauer, J. and King, A., "Transfer function synthesis without quantifier elimination", *Logical methods in computer science : LMCS*, vol. 8, iss. 3, 2012

Transfer function synthesis without quantifier elimination

Bibtex entry :

```
@article { BK12a,
  author = { Brauer, Jörg and King, Andy },
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[BKN12]

[PDFBIB](#)

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Bibtex entry :

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@inproceedings { BKN12,
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[BKS12]

[PDFBIB](#)

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Bibtex entry :

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@inproceedings { BKS12,
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[BKS12a]

[PDFBIB](#)

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Automatische Wertebereichsanalyse -- Formale Verifikation für SPS-Programme

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@article { BKS12a,

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[BKS12b]

[PDFBIB](#)

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Bibtex entry :

```
@inproceedings { BKS12b,
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[BS12]

[PDFBIB](#)

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Bibtex entry :

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@inproceedings { BSK12,
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[BSK12]

[PDFBIB](#)

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@article { BSK12,
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[DBK12]

[PDFBIB](#)

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

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@inproceedings { DBK12,
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  author = { Franke, Dominik and Dzafic, Dzenan and Baumeister, Danni  
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  title = { Energieeffizientes Routing f{"u}r Elektrorollst{"u}hle  
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  pages = { 16-20 },  
  year = { 2012 },  
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  publisher = { IEEE },
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  year = { 2012 },
  address = { Piscataway, NJ },
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[MEJ+12]

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title = { Synchronization for Hybrid MPSoC Full-System Simulation
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doi = { 10.1145/2228360.2228383 },
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  year = { 2012 },
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  year = { 2012 },  
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  pages = { 476-481 },
  year = { 2012 },
  address = { Piscataway, NJ },
  doi = { 10.1109/COMPSACW.2012.90 },
  typ = { PUB:(DE-HGF)8 },
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  url = { http://publications.rwth-aachen.de/record/227070 },
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  author = { Walter, Marian and Brendle, Christian and Bensberg, Ralf
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  address = { [Berlin] },
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  Software Testing, Verification, and Validation ; Berlin,
  Germany, 21-25 March 2011 / Spons. by IEEE Computer
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  booktitle = { Intelligent robotics and applications : 4th
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doi = { 10.1007/978-3-642-18275-4_25 },
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@article { RHS+11,
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Bastian
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[RSM+11]

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  author = { Reinbacher, Thomas and Steininger, Andreas and
M{"u}ller,
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  Kowalewski, Stefan },
  title = { Hardware Support for Efficient Testing of Embedded
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Engineering Conference - 2011 : presented at ASME 2011
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and Applications, Pt. A },
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url = { http://publications.rwth-aachen.de/record/125111 },
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[SGA+11]

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@inproceedings { SGA+11,
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[SGB+11]

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Interoperability : HCMDSS/MDPnP 2011 ; in conjunction with
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  year = { 2011 },
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  author = { Sasnauskas, Raimondas and Soria Dustmann, Oscar and
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    June 2011 / IEEE. [Sponsored by IEEE Computer Society
    Technical Committee on Distributed Processing. David
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[WBA+11]

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    author = { Walter, Marian and Brendle, Christian and Arens, Jutta
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oxygenation },
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[AdM+10]

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  url = { http://publications.rwth-aachen.de/record/165220 },
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  author = { Armoush, Ashraf },
  othercontributors = { Kowalewski, Stefan },
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http://publications.rwth-aachen.de/record/51773/files/3273.pdf },
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  author = { Biallas, Sebastian and Brauer, J{"o}rg and G{"u}ckel,
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  author = { Biallas, Sebastian and Brauer, J{\\"o}rg and Kowalewski,
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Beschreibungsmittel, Methoden, Werkzeuge und Anwendungen ;
11. Fachtagung mit Tutorium, 25. bis 27. Mai 2010 in
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f{\\"u}r Automation und Kommunikation e.V., Magdeburg;
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publisher = { ifak },
pages = { 49-57 },
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[BK10]

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[BKK+10]

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[SJW+10]

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Bibtex entry :

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@article { SJW+10,  
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[SLA+10]

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f{"u}r Automation und Kommunikation e.V., Magdeburg;
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[WLK+10]

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  journal = { Electronic notes in theoretical computer science :
ENTCS },
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[BPK09a]

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Bibtex entry :

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[BPK09b]

[PDFBIB](#)

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    Mechanism for Embedded Systems },
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Bibtex entry :

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@inproceedings { BPP+09,
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[BSK09]

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[BSR+09]

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[Guc09]

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  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 },
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  url = {
http://sunsite.informatik.rwth-aachen.de/Publications/AIB/2009/2009-14.
pdf },
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  editor = { Hutchison, David and Kanade, Takeo and Kittler, Josef
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  Kleinberg, Jon M. and Mattern, Friedemann and Mitchell, John
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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
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Practice of Software, ETAPS 2009, York, UK, March 22-29,
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  publisher = { Springer Berlin Heidelberg },
  series = { LNCS },
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(UK),
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  publisher = { Cambridge University Press [2009] },  
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  year = { 2009 },  
  address = { Cambridge },  
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  cin = { 122810 / 120000 },  
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  author = { Klein, Gerwin and Huuck, Ralf and Schlich, Bastian },  
  title = { Operating System Verification },  
  journal = { Journal of automated reasoning },  
  publisher = { Springer },  
  pages = { 123-124 },  
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  number = { 2/4 },  
  year = { 2009 },  
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  url = { http://publications.rwth-aachen.de/record/188901 },  
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  journal = { Yearbook of Intensive Care and Emergency Medicine },
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  pages = { 341-349 },
  volume = { 2009 },
  year = { 2009 },
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  author = { Kl{"u}nder, Daniel },
  othercontributors = { Kowalewski, Stefan },
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            Zustandsmaschinen und business object notation },
  publisher = { RWTH Aachen, Department of Computer Science },
  pages = { X, 131 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
  year = { 2009 },
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  pages = { XVI, 456 S. : graph. Darst. },
  volume = { 5505 },
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    Stollenwerk, Andr\u{e} and Leonhardt, Steffen and Schmitz-Rode,
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  title = { Regelungs- und Sicherheitskonzepte f\u{u}r extrakorporale
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  journal = { Biomedizinische Technik = Biomedical engineering },
  publisher = { de Gruyter },
  pages = { 289-297 },
  volume = { 54 },
  number = { 5 },
  year = { 2009 },
  address = { Berlin [u.a.] },
  issn = { 0013-5585 },
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    author = { Mitsching, Ralf },
    title = { Testing in the Industrial Development Process for
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    booktitle = { Doctoral Symposium on Systems Software Verification
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    Proceedings },
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    url = { http://aib.informatik.rwth-aachen.de/2009/2009-14.pdf },
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  author = { Mitsching, Ralf and Weise, Carsten and Kolbe, André and
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  title = { Towards an industrial strength process for timed testing
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  booktitle = { International Conference on Software Testing,
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  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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  author = { Polzer, Andreas and Botterweck, G{"o}tz and Wagnerin,
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title = { Variabilit{\a}t im modellbasierten Engineering von
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booktitle = { Informatik 2009 : im Focus das Leben ; Beitr{\a}ge
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publisher = { Ges. f{\u}r Informatik },
pages = { 331-331 },
series = { GI-Edition : Proceedings },
year = { 2009 },
address = { L{\u}beck, Germany },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-172392 },
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http://subs.emis.de/LNI/Proceedings/Proceedings154/P-154.pdf },
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author = { Palczynski, Jacob and Kowalewski, Stefan },
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2009 / [technical sponsors: IEEE United Kingdom and Republic
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... },
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pages = { 148-153 },
year = { 2009 },
address = { Piscataway, NJ },
doi = { 10.1109/EMS.2009.69 },
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cin = { 122810 / 120000 },
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  author = { Polzer, Andreas and Kowalewski, Stefan and Botterweck, G{"o"}tz },
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  booktitle = { 2009 ICSE Workshop on Model-Based Methodologies for Pervasive and Embedded Software : (MOMPES 2009) ; May 16, 2009, Vancouver, Canada ; in conjunction with the 2009 IEEE 31st International Conference on Software Engineering (ICSE 2009); May 16-24, 2009 },
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  pages = { 2-10 },
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  doi = { 10.1109/MOMPES.2009.5069132 },
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  url = { http://publications.rwth-aachen.de/record/99427 },
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MCS-51
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Embedded
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(IES)] },
  publisher = { IEEE },
  pages = { 161-170 },
  year = { 2009 },
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  url = { http://publications.rwth-aachen.de/record/99425 },
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[RHS+09]

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Bibtex entry :

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  author = { Reinbacher, Thomas and Horauer, Martin and Schlich,
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  and Brauer, J{"o}rg and Scheuer, Florian },
  title = { Model checking assembly code of an industrial knitting
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  booktitle = { Proceedings of the 2009 Fourth International
Conference on
  Embedded and Multimedia Computing : EM-Com 2009 : [December
10-12, 2009, Jeju Island, Korea] },
  publisher = { IEEE },
  pages = { 8 S. },
  year = { 2009 },
  address = { Piscataway, NJ },
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  url = { http://publications.rwth-aachen.de/record/129021 },
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    15-17, 2009, Liberec, Czech Republic / M. Renovell; IEEE
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  author = { Schlich, Bastian and Brauer, J{"o}rg and Wernerus,
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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 },
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[SJK09]

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An undergraduate embedded software laboratory for the masses

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  author = { Stollenwerk, André and Jongdee, Chate and Kowalewski,  
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  url = { http://publications.rwth-aachen.de/record/100434 },  
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[SK09]

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  author = { Schlich, Bastian and Kowalewski, Stefan },  
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    [10. Branchentreff der Mess- und Automatisierungstechnik] /
    VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik. -
    2067 },
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[SL09]

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    title = { Embedded Contributions to an Intensive Care Safety
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[SWW+09]

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    author = { Stollenwerk, André and Walter, Marian and Wartzek,
Tobias
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ticle=B21049FA-B9E6-4AF6-96BC-F3AAEB904F59 },
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  author = { Schmitz, Dominik and Zhang, Ming and Rose, Thomas and Jarke, Matthias and Polzer, Andreas and Palczynski, Jacob and Kowalewski, Stefan and Reke, Michael },
  title = { Mapping Requirement Models to Mathematical Models in Control System Development },
  booktitle = { Model driven architecture - foundations and applications : 5th European conference, ECMDA-FA 2009, Enschede, The Netherlands, June 23 - 26, 2009 ; proceedings / Richard F. Paige; Alan Hartman; Arend Rensink (eds.) },
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[TBG+09]

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  author = { Thomas, Wolfgang and Bollue, Kai and G{"u"}ckel, Dominique and Quirós, Gustavo and Slaats, Michaela and Ummels, Michael },
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title = { DFG Research Training Group 'Algorithmic synthesis of
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  author = { Walter, Marian and Leonhardt, Steffen and Kopp,
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    url = { http://publications.rwth-aachen.de/record/99922 },
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standards and Proposed Hardware Implementation of CanSat },
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    Scientists, IMECS 2008 : 19 - 21 March, 2008, Regal Knowloon
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    pages = { 1444-1447 },
    series = { Lecture notes in engineering and computer science },
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http://www.iaeng.org/publication/IMECS2008/IMECS2008_pp1444-1447.pdf },
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[ASK08]

[PDFBIB](#)

Armoush, A., Salewski, F., and Kowalewski, S., "A hybrid fault tolerance method for recovery block with a weak acceptance test", in *Proc. 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*, Los Alamitos, Calif., 2008, IEEE Computer Society, pp. 484-491.

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  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski, Stefan },
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embedded systems

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  author = { Armoush, Ashraf and Salewski, Falk and Kowalewski,  
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Software Engineering ; Proceedings ; 12-14 December 2008 •  
Wuhan, Hubei, China. - Vol. 4 },  
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[ASK08b]

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[BKK+08]

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  author = { Beckers, J{"o}rg and Kl{"u}nder, Daniel and
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  booktitle = { Abstract state machines, B and Z : first
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  address = { Berlin [u.a.] },
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[BSS+08]

[PDFBIB](#)

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Fault handling approaches on dual-core microcontrollers in safety-critical automotive applications

Bibtex entry :

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@inproceedings { BSS+08,
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  booktitle = { Leveraging applications of formal methods,
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  pages = { 82-92 },
  series = { Communications in computer and information science },
  year = { 2008 },
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[DHH+08]

[PDFBIB](#)

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Bibtex entry :

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booktitle = { Steuerung und Regelung von Fahrzeugen und Motoren :
AUTOREG
2008 ; 4. Fachtagung Baden-Baden, 12. und 13. Februar 2008 /
VDI/VDE-Gesellschaft Mess- und Automatisierungstechnik },
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[DHS+08]

[PDFBIB](#)

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Bibtex entry :

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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
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[HFS+08]

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  author = { Huuck, Ralf and Fehnker, Ansgar and Seefried, Sean and
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Choi; Moonzoo Kim; Insup Lee; Mahesh Viswanathan (eds.) },
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  pages = { 216-221 },
  volume = { 5311 },
  series = { Lecture notes in computer science },
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  organization = { 6th International Symposium on Automated
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  Verification and Analysis, Seoul (South Korea), 2008-10-20 -
2008-10-23 },
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[HSW+08]

PDFBIB

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

Proving correctness of an efficient abstraction for interrupt handling

Bibtex entry :

```
@article { HSW+08,
  author = { Herberich, Gerlind and Schlich, Bastian and Weise,
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  interrupt handling },
  journal = { Electronic notes in theoretical computer science :
  ENTCS },
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  volume = { 217 },
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}
```

[KKK08]

[PDFBIB](#)

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

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Bibtex entry :

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

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

[KLK08]

[PDFBIB](#)

Klünder, D., Li, J., and Kowalewski, S., "Design-by-Contract for Embedded Systems", in *Proc. International Symposium on Software Variability: a Programmers' Perspective (SVPP 2008)*, 2008.

Design-by-Contract for Embedded Systems

Bibtex entry :

```

@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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}

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[Klu08]

[PDFBIB](#)

Klünder, D., "Modellierung und Analyse von Fahrzeugsoftware mit Abstract State Machines", in *Proc. Modellierung 2008 : 12. - 14. März 2008, Berlin / Thomas Kühne ... (Hrsg.)*, Bonn:, 2008 in GI-Edition : Proceedings, Ges. f. Informatik, pp. 225-228.

Modellierung und Analyse von Fahrzeugsoftware mit Abstract State Machines

Bibtex entry :

```

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

```

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

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[MHR+08]

[PDFBIB](#)

Michailidis, A. A., Hedenetz, B., Ringler, T., and Kowalewski, S., "Virtuelle Integration von vernetzten Funktionen in frühen Entwicklungsphasen", in *Proc. Moderne Elektronik im Kraftfahrzeug III : Systeme von morgen - technische Innovationen und Entwicklungstrends ; [28. Tagung 'Elektronik im Kraftfahrzeug' vom Haus der Technik Essen e.V. in München (i.e. Dresden!)] / Bernard Bäker (Hrsg.) u. 46 Mitautoren*, Renningen, 2008 in Haus der Technik Fachbuch, Expert-Verl., pp. 151-167.

Virtuelle Integration von vernetzten Funktionen in frühen Entwicklungsphasen

Bibtex entry :

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@inproceedings { MHR+08,
author = { Michailidis, Alexander A. and Hedenetz, Bernd and
Ringler,
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title = { Virtuelle Integration von vernetzten Funktionen in
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booktitle = { Moderne Elektronik im Kraftfahrzeug III : Systeme von
morgen
- technische Innovationen und Entwicklungstrends ; [28.
Tagung 'Elektronik im Kraftfahrzeug' vom Haus der Technik
Essen e.V. in München (i.e. Dresden!)] / Bernard
Bäker (Hrsg.) u. 46 Mitautoren },
publisher = { Expert-Verl. },
pages = { 151-167 },
series = { Haus der Technik Fachbuch },
year = { 2008 },
address = { Renningen },

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typ = { PUB:(DE-HGF)8 },
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}
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[NS08]

[PDFBIB](#)

Noll, T. and Schlich, B., "Delayed nondeterminism in model checking embedded systems assembly code" Berlin [u.a.]: Springer, 2008, vol. 4899, pp. 185-201.

Delayed nondeterminism in model checking embedded systems assembly code

Bibtex entry :

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

[PDFBIB](#)

Reinbacher, T., Kramer, M., Horauer, M., and Schlich, B., "Motivating model checking for embedded systems software", in *Proc. 2008 IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications : MESA ; Beijing, China, 12 - 15 October 2008*, Piscataway, NJ, 2008, IEEE, pp. 546-551.

Motivating model checking for embedded systems software

Bibtex entry :

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

[RKH+08a]

[PDFBIB](#)

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Challenges in embedded model checking : a simulator for the [mc]square model checker**Bibtex entry :**

```
@inproceedings { RKH+08a,  
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  IEEE },  
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doi = { 10.1109/SIES.2008.4577709 },
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reportid = { RWTH-CONV-172528 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/99569 },
}
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[Sal08]

[PDFBIB](#)

Salewski, F., "Empirical evaluations of safety critical embedded systems", PhD Thesis, Aachen, 2008.

Empirical evaluations of safety critical embedded systems

Bibtex entry :

```
@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. },
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http://publications.rwth-aachen.de/record/459474/files/Salewski_Falk.pdf },
}
```

[Sch08]

[PDFBIB](#)

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

Model checking of software for microcontrollers

Bibtex entry :

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@phdthesis { Sch08,
  author = { Schlich, Bastian },
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  pages = { IV, 159 S. : graph. Darst. },
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http://publications.rwth-aachen.de/record/63747/files/Schlich_Bastian.pdf },
}
```

[SDH+08]

[PDFBIB](#)

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

Modellbasierte Anforderungserfassung für softwarebasierte Regelungen

Bibtex entry :

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@inproceedings { SDH+08,
  author = { Schmitz, Dominik and Drews, Peter and He{\ss}eler,
    Frank-Josef and Jarke, Matthias and Kowalewski, Stefan and
    Palczynski, Jacob and Polzer, Andreas and Reke, Michael and
    Rose, Thomas },
  title = { Modellbasierte Anforderungserfassung f{"u}r
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  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 },
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[SGK08]

[PDFBIB](#)

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

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

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

Bibtex entry :

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@inproceedings { SGK08,
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    state-explosion problem in model checking },
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    2008, Budapest, Hungary, October 9 - 10, 2008 / Géza Tarnai
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```

[SK08]

[PDFBIB](#)

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

Bibtex entry :

```
@inproceedings { SK08,
  author = { Salewski, Falk and Kowalewski, Stefan },
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    url = { http://publications.rwth-aachen.de/record/98747 },
}
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[SK08a]

[PDFBIB](#)

Salewski, F. and Kowalewski, S., "Hardware/software design considerations for automotive embedded systems", *IEEE transactions on industrial informatics*, vol. 4, iss. 3, pp. 156-163, 2008

Hardware/software design considerations for automotive embedded systems

Bibtex entry :

```
@article { SK08a,
    author = { Salewski, Falk and Kowalewski, Stefan },
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    journal = { IEEE transactions on industrial informatics },
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    year = { 2008 },
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    url = { http://publications.rwth-aachen.de/record/131366 },
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[SLK08]

[PDFBIB](#)

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Application of static analyses for state space reduction

to microcontroller assembly code

Bibtex entry :

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@inbook { SLK08,
  author = { Schlich, Bastian and L{"o}ll, Jann and Kowalewski,
Stefan },
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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.] },
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  url = { http://publications.rwth-aachen.de/record/83462 },
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[ST08]

[PDFBIB](#)

Salewski, F. and Taylor, A., "Systematic considerations for the application of FPGAs in industrial applications", in *Proc. 2008 IEEE International Symposium on Industrial Electronics : [ISIE 2008] ; Cambridge, United Kingdom, 30 June - 2 July 2008. - Vol. 4*, Piscataway, NJ, 2008, IEEE, pp. 2009-2015.

Systematic considerations for the application of FPGAs in industrial applications

Bibtex entry :

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@inproceedings { ST08,
  author = { Salewski, Falk and Taylor, Adam },
  title = { Systematic considerations for the application of FPGAs in
industrial applications },
  booktitle = { 2008 IEEE International Symposium on Industrial
Electronics
: [ISIE 2008] ; Cambridge, United Kingdom, 30 June - 2 July
2008. - Vol. 4 },
  publisher = { IEEE },
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url = { http://publications.rwth-aachen.de/record/98745 },
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[Wil08]

[PDFBIB](#)

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Empirical studies for the application of agile methods to embedded systems

Bibtex entry :

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@phdthesis { Wil08,
  author = { Wilking, Dirk },
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    embedded systems },
  publisher = { Fachgruppe Informatik, RWTH Aachen },
  pages = { XIV, 157 S. : graph. Darst. },
  series = { Aachener Informatik-Berichte },
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http://publications.rwth-aachen.de/record/52375/files/Wilking_Dirk.pdf
},
}
```

[WSK08]

[PDFBIB](#)

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

Measuring the human factor with the Rasch Model

Bibtex entry :

```
@inproceedings { WSK08,
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  Poland, October 10-12, 2007 ; revised selected papers /
  Bertrand Meyer; Jerzy R. Nawrocki; Bartosz Walter (eds.) },
  publisher = { Springer },
  pages = { 157-168 },
  series = { Lecture notes in computer science },
  year = { 2008 },
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}

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[BKK07]

[PDFBIB](#)

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Significance of the automation engineering

Bibtex entry :

```

@article { BKK07,
  author = { Bettenhausen, Kurt D. and Kowalewski, Stefan and Kugi,
  Andreas },
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  journal = { Automatisierungstechnik : at },
  publisher = { Oldenbourg },
  pages = { 269-271 },
  volume = { 55 },
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}

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[CSK+07]

[PDFBIB](#)

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Concept and prototyping of a fault management framework for automotive safety relevant systems

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@inbook { CSK+07,  
  author = { Chen, Xi and Salewski, Falk and Kowalewski, Stefan and  
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  booktitle = { Moderne Elektronik im Kraftfahrzeug II : Systeme von            - technische Innovationen und Entwicklungstrends ; und 19  
            Tabellen / Hrsg.: Bernard B{"a}ker },  
  publisher = { expert Verl. },  
  volume = { 82 },  
  series = { Haus der Technik - Fachbuchreihe },  
  year = { 2007 },  
  address = { Renningen },  
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  reportid = { RWTH-CONV-101338 },  
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  url = { http://publications.rwth-aachen.de/record/89875 },  
}
```

[KK07]

[PDFBIB](#)

Klünder, D. and Kowalewski, S., "Scenario-based evaluation of abstract state machines", in *Proc. The 14th International ASM Workshop (ASM'07) / (Ed.) Prinz, Andreas, 2007.*

Scenario-based evaluation of abstract state machines

Bibtex entry :

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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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}
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}

[SK07]

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  author = { Salewski, Falk and Kowalewski, Stefan },
  title = { Achieving highly reliable embedded software : an
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  booktitle = { Computer safety, reliability, and security : 26th
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    year = { 2007 },
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[Klu06b]

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[BKC+05]

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Bibtex entry :

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@inproceedings { BKC+05,
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[LKT05]

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journal = { Educational technology & society },
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[SK05]

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@inproceedings { SK05,
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Rheinische-Westf{"a}lische Technische Hochschule Aachen /
Verant.: Gesellschaft f{"u}r Informatik, Fachgruppe Ada
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  author = { Schlich, Bastian and Kowalewski, Stefan },  
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  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  
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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
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Center. Ed.: Tiziana Margaria ... },
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[WK05]

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  author = { Wilking, Dirk and Kowalewski, Stefan },
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  booktitle = { Extreme programming and agile processes in software
    engineering : 6th international conference, XP 2005,
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  publisher = { Springer },
  pages = { 319-320 },
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[WR05]

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  author = { Wilking, Dirk and R{"o}fer, Thomas },
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  booktitle = { RoboCup 2004: Robot Soccer World Cup VIII / Daniele
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  pages = { 556-563 },
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[SK04]

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[PDFBIB](#)

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Bibtex entry :

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@inproceedings { SG94,
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International
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