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Kontakt



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Forschungstätigkeit

- Validierung automatisch generierten Codes
- BMBF-Projekt [ZAMOMO](#)
- Im Rahmen meiner Diplomarbeit Anforderungen an einen Modelchecker für Matlab/Simulink entstand eine Evaluationssuite für Matlab/Simulink-Modelchecker

Veröffentlichungen

[Pal14]

[PDF](#)BIB

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

Time continuous behaviour comparison based on abstract models

Bibtex entry :

```
@phdthesis { Pal14,
  author = { Palczynski, Jacob },
  othercontributors = { Kowalewski, Stefan },
  title = { Time continuous behaviour comparison based on abstract
    models },
  publisher = { Fachgruppe Informatik, RWTH Aachen University },
  pages = { II-XI, 126 S. },
  series = { Aachener Informatik-Berichte },
  year = { 2014 },
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url = {
http://publications.rwth-aachen.de/record/229310/files/4941.pdf },
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[PWK+11]

[PDFBIB](#)

Palczynski, J., Weise, C., Kowalewski, S., and Ulmer, D., "Estimation of Clock Drift in HiL Testing by Property-Based Conformance Check", in *Proc. 2011 IEEE Fourth International Conference on Software Testing, Verification and Validation workshops (ICSTW 2011) : Berlin, Germany, 21 - 25 March 2011 ; [proceedings] / [sponsored by IEEE Computer Society]*, Piscataway, NJ, 2011, IEEE, pp. 590-595.

Estimation of Clock Drift in HiL Testing by Property-Based Conformance Check

Bibtex entry :

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@inproceedings { PWK+11,
  author = { Palczynski, Jacob and Weise, Carsten and Kowalewski,
Stefan
    and Ulmer, Daniel },
  title = { Estimation of Clock Drift in HiL Testing by Property-
Based
    Conformance Check },
  booktitle = { 2011 IEEE Fourth International Conference on Software
Testing, Verification and Validation workshops (ICSTW 2011)
: Berlin, Germany, 21 - 25 March 2011 ; [proceedings] /
[sponsored by IEEE Computer Society] },
  publisher = { IEEE },
  pages = { 590-595 },
  year = { 2011 },
  address = { Piscataway, NJ },
  organization = { IEEE Fourth International Conference on Software
Testing,
    Verification and Validation workshops, Berlin (Germany),
    2011-03-21 - 2011-03-25 },
  doi = { 10.1109/ICSTW.2011.101 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196810 },
  cin = { 122810 / 120000 },
  url = { http://publications.rwth-aachen.de/record/126479 },
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[PWM+11]

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Palczynski, J., Weise, C., Moj, S., and Kowalewski, S., "Comparing Continuous Behaviour in

Model-based Development of Embedded Software", in *Proc. Tagungsband / Dagstuhl-Workshop MBEES (MBEES 2011): Modellbasierte Entwicklung eingebetteter Systeme VII : model-based development of embedded systems ; 16.02.2011 - 18.02.2011 / Holger Giese ...*, München, 2011, fortiss, pp. 61-70.

Comparing Continuous Behaviour in Model-based Development of Embedded Software

Bibtex entry :

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@inproceedings { PWM+11,
  author = { Palczynski, Jacob and Weise, Carsten and Moj, Sebastian
and
  Kowalewski, Stefan },
  title = { Comparing Continuous Behaviour in Model-based Development
of
  Embedded Software },
  booktitle = { Tagungsband / Dagstuhl-Workshop MBEES (MBEES 2011):
  Modellbasierte Entwicklung eingebetteter Systeme VII :
  model-based development of embedded systems ; 16.02.2011 -
  18.02.2011 / Holger Giese ... },
  publisher = { fortiss },
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  year = { 2011 },
  address = { M{"u"}nchen },
  organization = { Tagungsband / Dagstuhl-Workshop MBEES (MBEES
2011):
  Modellbasierte Entwicklung eingebetteter Systeme VII :
  model-based development of embedded systems, 2011-02-16 -
  2011-02-18 },
  typ = { PUB:(DE-HGF)8 },
  reportid = { RWTH-CONV-196792 },
  cin = { 122810 / 120000 },
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[PWK10]

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Palczynski, J., Weise, C., and Kowalewski, S., "Testing Continuous Systems Conformance Using Cross Correlation", in *Proc. Proceedings of the 22nd IFIP International Conference on Testing Software and Systems: Short Papers ; October, 2010 / Eds.: Alexandre Petrenko ...*, Montreal, 2010 in CRIM : Documentation/Communications, CRIM, pp. 31-36.

Testing Continuous Systems Conformance Using Cross Correlation

Bibtex entry :

```
@inproceedings { PWK10,  
  author = { Palczynski, Jacob and Weise, Carsten and Kowalewski,  
Stefan },  
  title = { Testing Continuous Systems Conformance Using Cross  
Correlation },  
  booktitle = { Proceedings of the 22nd IFIP International Conference  
on  
Testing Software and Systems: Short Papers ; October, 2010 /  
Eds.: Alexandre Petrenko ... },  
  publisher = { CRIM },  
  pages = { 31-36 },  
  series = { CRIM : Documentation/Communications },  
  year = { 2010 },  
  address = { Montreal },  
  organization = { 22. IFIP International Conference on Testing  
Software and  
Systems, 2010-10 - 2010-10 },  
  typ = { PUB:(DE-HGF)7 },  
  reportid = { RWTH-CONV-196796 },  
  cin = { 122810 / 120000 },  
  url = {  
http://www.crim.ca/Publications/2010/documents/plein\_texte/ASD\_PetA\_al\_201010\_ICTSS\_sp.pdf },  
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[PK09]

[PDFBIB](#)

Palczynski, J. and Kowalewski, S., "Early Behaviour Modelling for Control Systems", in *Proc. 2009 Third UKSim European Symposium on Computer Modeling and Simulation : EMS 2009 ; Athens, Greece, 25 - 27 November 2009 / [technical sponsors: IEEE United Kingdom and Republic of Island [i.e. Ireland] Section ...]. Ed.: David Al-Dabass ...*, Piscataway, NJ, 2009, IEEE, pp. 148-153.

Early Behaviour Modelling for Control Systems

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@inproceedings { PK09,  
  author = { Palczynski, Jacob and Kowalewski, Stefan },  
  title = { Early Behaviour Modelling for Control Systems },  
  booktitle = { 2009 Third UKSim European Symposium on Computer  
Modeling and  
Simulation : EMS 2009 ; Athens, Greece, 25 - 27 November  
2009 / [technical sponsors: IEEE United Kingdom and Republic  
of Island [i.e. Ireland] Section ...]. Ed.: David Al-Dabass  
... },  
  publisher = { IEEE },  
  pages = { 148-153 },  
  year = { 2009 },
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address = { Piscataway, NJ },
organization = { 3. UKSim European Symposium on Computer Modeling
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Simulation, Athen (Greece), 2009-11-25 - 2009-11-27 },
doi = { 10.1109/EMS.2009.69 },
typ = { PUB:(DE-HGF)8 },
reportid = { RWTH-CONV-171883 },
cin = { 122810 / 120000 },
url = { http://publications.rwth-aachen.de/record/98844 },
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[SZR+09]

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Schmitz, D., Zhang, M., Rose, T., Jarke, M., Polzer, A., Palczynski, J., Kowalewski, S., and Reke, M., "Mapping Requirement Models to Mathematical Models in Control System Development", in *Proc. Model driven architecture - foundations and applications : 5th European conference, ECMDA-FA 2009, Enschede, The Netherlands, June 23 - 26, 2009 ; proceedings / Richard F. Paige; Alan Hartman; Arend Rensink (eds.)*, Berlin [u.a.], 2009 in Lecture notes in computer science, Springer.

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@inproceedings { SZR+09,
  author = { Schmitz, Dominik and Zhang, Ming and Rose, Thomas and
Jarke,
Matthias and Polzer, Andreas and Palczynski, Jacob and
Kowalewski, Stefan and Reke, Michael },
  title = { Mapping Requirement Models to Mathematical Models in
Control
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  booktitle = { Model driven architecture - foundations and
applications :
5th European conference, ECMDA-FA 2009, Enschede, The
Netherlands, June 23 - 26, 2009 ; proceedings / Richard F.
Paige; Alan Hartman; Arend Rensink (eds.) },
  publisher = { Springer },
  series = { Lecture notes in computer science },
  year = { 2009 },
  address = { Berlin [u.a.] },
  organization = { Model driven architecture - foundations and
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5. European conference, Enschede (Netherlands), 2009-06-23 -
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  doi = { 10.1007/978-3-642-02674-4_18 },
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url = { http://publications.rwth-aachen.de/record/99431 },
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[SDH+08]

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

Modellbasierte Anforderungserfassung für softwarebasierte Regelungen

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  author = { Schmitz, Dominik and Drews, Peter and He{\ss}eler,
    Frank-Josef and Jarke, Matthias and Kowalewski, Stefan and
    Palczynski, Jacob and Polzer, Andreas and Reke, Michael and
    Rose, Thomas },
  title = { Modellbasierte Anforderungserfassung f{"u}r
    softwarebasierte Regelungen },
  booktitle = { Software Engineering 2008 : Fachtagung des GI-
    Fachbereichs
      Softwaretechnik, 18. - 22.02.2008 in M{"u"}nchen /
      Gesellschaft f{"u"}r Informatik (GI). Korbinian Herrmann;
      Bernd Bruegge (Hrsg.) },
  publisher = { Ges. f{"u"}r Informatik },
  pages = { 257-271 },
  series = { GI-Edition : Proceedings },
  year = { 2008 },
  address = { Bonn },
  organization = { Software Engineering 2008 : Fachtagung des GI-
    Fachbereichs
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  url = { http://publications.rwth-aachen.de/record/97321 },
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[PSK06]

[PDFBIB](#)

Palczynski, J., Schlich, B., and Kowalewski, S., "Eine Evaluationssuite zur schnellen Bewertung von Matlab/Simulink-Modelcheckern", in *Proc. Informatik 2006 : Informatik für Menschen ; Beiträge der 36. Jahrestagung der Gesellschaft für Informatik e.V. (GI) ; 2. bis 6. Oktober 2006 in Dresden / Christian Hochberger ... (Hrsg.). - T. 1. - 1*, Bonn, 2006 in GI-Edition : Proceedings, Ges. für Informatik, pp. 751-755.

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@inproceedings { PSK06,
  author = { Palczynski, Jacob and Schlich, Bastian and Kowalewski,
    Stefan },
  title = { Eine Evaluationssuite zur schnellen Bewertung von
    Matlab/Simulink-Modelcheckern },
  booktitle = { Informatik 2006 : Informatik f{"u}r Menschen ;
    Beitr{"a"}ge
      der 36. Jahrestagung der Gesellschaft f{"u}r Informatik
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  publisher = { Ges. f{"u}r Informatik },
  pages = { 751-755 },
  series = { GI-Edition : Proceedings },
  year = { 2006 },
  address = { Bonn },
  organization = { 36. Jahrestagung der Gesellschaft f{"u}r
    Informatik e.V.,
      Dresden (Germany), 2006-10-02 - 2006-10-06 },
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  reportid = { RWTH-CONV-183701 },
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  url = { http://publications.rwth-aachen.de/record/111754 },
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Lehre

Semester	Titel	Art
Sommersemester 10	Automatisierungssoftware	PT
Sommersemester 09	Modellierung technischer und physikalischer Systeme	PT
Wintersemester 08/09	Fahrerassistenzsysteme und Modellbasierte Softwareentwicklung im Automobilberiech	ST
Sommersemester 08	Modellierung technischer und physikalischer Systeme	PT
Wintersemester 07/08	Dynamische Systeme für Informatiker	VÜ
Sommersemester 07	Automotive Software Engineering	PST
Wintersemester 06/07	Dynamische Systeme für Informatiker	VÜ
Sommersemester 06	Formale Methoden für eingebettete Systeme	VÜ

Sprechstunde

Nach Vereinbarung.

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