

# Dr. rer. nat. Jacob Palczynski

## Kontakt



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[XING PROFIL](#) [LinkedIn Profil](#)

## Forschungstätigkeit

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

## Veröffentlichungen

[Pal14]

[PDFBIB](#)

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

### **Time continuous behaviour comparison based on abstract models**

#### **Bibtex entry :**

```
@phdthesis { Pal14,  
  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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cin = { 120000 / 122810 },
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 :

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

[PWM+11]

[PDFBIB](#)

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 :

```
@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 ... },  
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  url = {  
http://www.in.tu-clausthal.de/fileadmin/homes/GI/Documents/MBEES2011_Ge  
samt_final_web.pdf },  
}
```

[PWK10]

[PDFBIB](#)

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 },
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url = {
http://www.crim.ca/Publications/2010/documents/plein_texte/ASD_PetA_al_
201010_ICTSS_sp.pdf },
}
```

[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

### Bibtex entry :

```
@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 },
  address = { Piscataway, NJ },
  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]

[PDFBIB](#)

Schmitz, D., Zhang, M., Rose, T., Jarke, M., Polzer, A., Palczynski, J., Kowalewski, S., and Reke, M., "Mapping Requirement Models to Mathematical Models in Control System Development", in *Proc. Model driven architecture - foundations and applications : 5th European conference, ECMDA-FA 2009, Enschede, The Netherlands, June 23 - 26, 2009 ; proceedings / Richard F.*

Paige; Alan Hartman; Arend Rensink (eds.), Berlin [u.a.], 2009 in Lecture notes in computer science, Springer.

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

### Bibtex entry :

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

[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 :

```
@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
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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 },
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cin = { 120000 / 122810 / 121810 / 416610 },
url = { http://publications.rwth-aachen.de/record/97321 },
}
```

[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.

## Eine Evaluationssuite zur schnellen Bewertung von Matlab/Simulink-Modelcheckern

### Bibtex entry :

```
@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
e.V. (GI) ; 2. bis 6. Oktober 2006 in Dresden / Christian
Hochberger ... (Hrsg.). - T. 1. - 1 },
publisher = { Ges. f{"u}r Informatik },
pages = { 751-755 },
series = { GI-Edition : Proceedings },
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url = { http://publications.rwth-aachen.de/record/111754 },
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## Lehre

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

## Sprechstunde

Nach Vereinbarung.

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<https://embedded.rwth-aachen.de/> - **Lehrstuhl Informatik 11 - Embedded Software Laboratory**

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<https://embedded.rwth-aachen.de/doku.php?id=lehrstuhl:mitarbeiter:palczynski>

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