

Full Curriculum Vitae – Jaco van de Pol – September 2021

1 General Information

Name : Prof. Dr. J.C. (Jaco) van de Pol

Born : April 6, 1969 in Barneveld, The Netherlands

Current Affiliations

Aarhus University (full-time)

Dept. of Computer Science

Åbogade 34, Turing Building

DK-8200 Aarhus N, Denmark

E-mail : jaco@cs.au.dk

URL : <https://cs.au.dk/~jaco>

University of Twente (part-time)

Formal Methods and Tools

P.O.-box 217, Zilverling

7500 AE Enschede, The Netherlands

E-mail : J.C.vandePol@UTwente.nl

URL : <http://fmt.cs.utwente.nl/~vdpol>

2 Research Interests

Model checking, theorem proving and testing techniques, for the analysis of safety, dependability and security aspects of software-intensive computer systems.

More specifically, the development of new model checking algorithms, based on symbolic techniques (e.g. abstraction, confluence, fixpoint equation systems, constraint solving, parameter synthesis) and high-performance computing (e.g. distributed model checking, multi-core and out-of-core algorithms). Application domains include embedded systems, distributed systems, security protocols, socio-technical and biological systems.

3 Working Experience

- Nov 2018 – current: Professor of Computer Science, Aarhus University, Denmark.
- Sept 2007 – current: Full Professor University of Twente, The Netherlands. Faculty of EEMCS, Research Institute CTIT, *Chair Formal Methods and Tools*.
- May 2004 – Aug 2007: Associate Professor (UHD, 0.2 fte) at the Technische Universiteit Eindhoven, Subsection: *Design and Analysis of Systems* (OAS).
- Sept 2004 – Aug 2007: Theme Leader at the Centrum voor Wiskunde en Informatica, Amsterdam, Theme SEN 2: *Specification and Analysis of Embedded Systems*.
- May 1999 – Sept 2004: Senior researcher at the Centrum voor Wiskunde en Informatica, Amsterdam, Dept. of Software Engineering (SEN 2).
- Nov 1996 – May 1999: Postdoc at the Eindhoven University of Technology, Department of Computing Science, Section Technical Applications.
- May 1994 – Jan 1995: Scientific assistant at the Ludwig Maximilian Universität München, Mathematisches Institut, section Mathematical Logic.
- Dec 1992 – Oct 1996: PhD at Utrecht University, Department of Philosophy, Section of Theoretical Philosophy, Applied Logic.

4 Management

- Apr 2016 – Jun 2017: Vice Dean Faculty of EEMCS
- Jan 2014 – Jun 2017: Head of Department Computer Science, University of Twente
- Jan 2014 – Jan 2015: Scientific Director CTIT (ad interim)

5 Education

- **Master degree:** December 1992
University : Utrecht University, Department of Computer Science
Main subject : Theoretical Computer Science (Modularity in Term Rewriting)
Predicate : Cum laude
- **Doctoral degree:** 11 December 1996
University : Utrecht University, Department of Philosophy
Supervisor : Prof. Dr. J.A. Bergstra
Title of thesis : Termination of Higher-order Rewrite Systems
- Leeuwendaal course: Management in Research Organisations 2005
- Eva Wiltingh: Management Course Academic Leadership 2008
- Krauthammer: Leadership Development Programme 2011
- BKO – University Teaching Qualification UTQ 2013

6 Academic Duties and Honours

6.1 Prizes

- Best Paper Award with Simon Wimmer and Frédéric Herbreteau, FORMATS 2020
- Best Student Paper Award with Vincent Bloemen, BPM 2018 (Sydney, Australia)
- Best Paper Award with Wytse Oortwijn, Tom van Dijk at SPIN 2017 (CA, USA)
- MCC competition 2016: LTSmin wins gold medal in LTL category
- RERS challenge 2012, 1st prize with LTSmin tool (ISOLA, Crete)
- RERS challenge 2013, 1st prize with LTSmin tool (ASE'13, Silicon Valley, CA, USA)
- RERS challenge 2016, LTSmin overall winner Parallel Problems (ISOLA, Corfu)
- MSc student Djurre van der Wal: Dutch Internet Thesis Prize 2018
- MSc student Thomas Neele: 2nd Dutch M&I Informatics Thesis Prize 2016
- MSc student Vincent Bloemen: U Twente thesis prize 2016
- MSc student Elwin Pater: ENIAC Thesis prize 2011
- MSc student Tom van Dijk: 2nd Dutch M&I Informatics Thesis Prize 2012
- PhD Mark Timmer: cum laude, IPA dissertation '13 and Overijssel PhD award '13
- PhD student Alfons Laarman: graduated cum laude, NWO-VENI personal grant
- PhD Marcus Gerhold and Vincent Bloemen: 2nd and 3rd PhD-award VERSEN 2020

6.2 International Activities

- Steering Committee member of SPIN *Model Checking of Software* (2017-)
- Editorial Board Member of Elsevier's *Science of Computer Programming* (2014-)
- Editorial Board Member of Springer's *Software Tools for Technology Transfer* (2017-)
- Invited Speaker at conferences, workshops, summerschools, panels:
 - Keynote: CONCUR+FMICS (Concurrency Theory), Amsterdam, 2019
 - Keynote: TTCS (Topics in Theoretical Computer Science), Tehran, Iran, 2017
 - Keynote: Petri Nets and ACSD, Zaragoza, Spain, 2017
 - Keynote: RP (Reachability Properties), Aalborg, Denmark, 2016
 - Keynote: NWPT (Nordic WS on Programming Theory), Tallinn, Estonia, 2013
 - Keynote: AVOCS (Automated Verification of Critical Systems), Germany, 2012
 - Keynote: HIBI (High-performance computing in Biology), Trento, Italy, 2009
 - Invited: DMCD (Dutch Model Checking Day), Utrecht, The Netherlands, 2018
 - Invited: MLQA (Modelling/Analysis of Quantitative Systems), Scotland, 2012
 - Invited: PDMC (Parallel and Distributed Model Checking), Utah, USA, 2011
 - Invited: Dagstuhl and Lorentz workshops (2001, 2007, 2008, 2010, 2013, 2014)
 - Panel Organiser: Competitions: Expectations, Progress, Impact (ISOLA, 2016)
 - Panel Member: Can formal methods help cleaning our software? (ISOLA, 2016)
 - Lecturer: VTSA summerschool, Luxembourg, 2014 (7 hours)
On: Verification Technology, Systems and Applications
 - Lecturer: Types Summerschool, Giens, France, 1999.
 - Tutorial: “Problem solving with Model Checking Techniques” at ICAPS (Automated Planning and Scheduling), Freiburg, Germany, 2011.
 - Tutorial: “Concurrent Algorithms for Model Checking” at FSTTCS Colocated Workshop “Advances in Verification”, Bits-Pilani, Goa, India, 2020.
- Chair (2019-) and Vice-chair (2003-2018) of the ERCIM working group FMICS (Formal methods for Industrial Critical Systems)
- Co-Organiser Lorentz Workshop “Advancing Verification Competitions as a Scientific Method”, Feb. 2019
- Coordinator FP6 project EC-MOAN (2007-2010) (Modeling and Analysis of Emergent Cell Behaviour in *Escherichia Coli*)
- Project proposal review boards:
 - Academy of Finland, CS Panel (Member: '13, '14, Chair: '16, '17)
 - Peer Reviewer ERC Advanced Grant proposal (2017)
 - Reviewer Research Proposal for Swiss National Science Foundation (2013)
 - Evaluator of European ITEA-project 'Sophocles' (2002,2003).
- International PhD reviews/juries and habilitations: Chalmers U of Technology, Sweden (2008), Technical U of Lisboa, Portugal (2010), Masaryk U Brno, CR (2012,

2015), U Paris-Est, France (2012), U of Malaga, Spain (2013), Bar-Ilan University, Israel (2014), U Paris VI, France (2014, 2016, 2017), Saarbrücken U, Germany (2015), U of Aalto, Finland (2017), U of Luxembourg (2017, 2020), U of Aalborg (2018), U Paris 13, LIPN, France (2019, 2019), Budapest U of T&E (2020), Sokendai/NII Japan (2020).

- Research visits
 - Paris 13, LIPN, Invited Professor (9/2019, three weeks)
 - Paris 13, LIPN (9/2018, one week)
 - Paris UPMC, LIP6, Invited Professor (10/2017, one month)
 - University of Swansea, Railway Workshop (7/2017, one week)
 - Paris 13, LIPN, Invited Professor (6/2017, one month)
 - Paris 13, LIPN, Invited Professor (6/2016, one month)
 - Masaryk University, Brno, (12/2006, two weeks)
 - INRIA Grenoble, France (2005, one week)
 - AIST-Amagasaki, Japan, 03/2003 (two weeks)
 - LMU München, 1994/95 (9 months)
- Co-organizer SENVA workshops (CWI/INRIA) 06/'04, 06/'05, 11/'05, 04/'06, 06/'06
- Conference co-chair of International Conferences and Workshops
 - appFM 2020, 1st IW on Applicable Formal Methods, Beijing, China
 - SYNCOP 2019, IW on Synthesis of Complex Parameters
 - TACAS 2015, IC on Tools & Algs for the Construction and Analysis, tool chair
 - AVOCS 2014, IW on Automated Verification of Critical Systems, Twente
 - SPIN 2010, IW on Model Checking Software, Twente
 - PDMC 2009, Parallel and Distributed Methods in Verification, Eindhoven
 - PDMC 2006, IW on Parallel and Distributed Methods in Verification, Bonn
 - PDMC 2005, IW on Parallel and Distributed Methods in Verification, Lisboa
 - IFM 2005, IC on Integrated Formal Methods, Eindhoven
- PC-member of ~80 International Conferences and Workshops:
 - CONCUR'21: Concurrency Theory
 - TACAS '04,'06,'14,'15,'17,'20,'21: Tools & Algs for Construction and Analysis
 - FM '09,'19,'21: Formal Methods
 - SPIN '10,'12,'14,'15,'18,'19,'21: Model Checking of Software
 - ICFEM '14,'15,'16,'17,'18,'19,'20: Formal Engineering Methods
 - FORTE '19: Formal Techniques for Distributed Systems
 - FSCD '19: Formal Structures for Computation and Deduction
 - FMCAD '18: Formal Methods in Computer Aided Design
 - FMICS '07,'09,'10,'11,'13,'14,'15,'18,'19,'20,'21: Formal Methods in Industrial Critical Systems
 - AVOCS '13,'14,'15: Automated Verification of Critical Systems

- FMICS/AVOCS '16,'17
 - ACSD '17,'18,'19: Applications of Concurrency in System Design
 - TMPA '17: Tools & Methods of Program Analysis
 - LATA '15: Language and Automata Theory and Applications
 - PECCS '13,'14: Pervasive, Embedded Computing and Communicating Systems
 - FORTE/FMOODS '13: Formal Techniques for Distributed Systems
 - SOFSEM '11: Current Trends in Theory and Practice of Computer Science
 - IFM '05,'07: Integrated Formal Methods
 - AMAST '04,'06: Algebraic Methodology And Software Technology
 - SETTA'19,'20,'21: Symp. on Dependable Software Engineering
 - SBMF '19: Brazilian Symposium on Formal Methods
 - Petri Nets'21,'22
 - SynCoP '18: Synthesis of Complex Parameters
 - RSSRail '17: Reliability, Safety and Security of Railway Systems
 - MEMICS '12: Mathematical and Engineering Methods in Computer Science
 - GRAPHITE '12: Graph Inspection and Traversal Engineering
 - TTSS '11: Harnessing Theories for Tool Support in Software
 - FOCLASA '10,'11: Coordination Languages and Software Architectures
 - HIBI '09,'10: High-performance Computational Systems Biology
 - COMPMOD '09: Computational Models of Cell Processes
 - PDMC '05,'06,'07,'08,'09,'10,'11: Parallel Distributed Methods in Verification
 - WRS '04,'06,'07,'11: Reduction Strategies in Rewriting and Programming
 - EXPRESS '04: Expressiveness in Concurrency
 - FM Doctoral Symposium '16,'19
- Guest editor for special issues in international journals: STTT (2004, 2005), ENTCS (2006, 2007), EPTCS (2009), SCP (2016)
 - Reviewer for international journals: Comm. of the ACM, Computers and Security, Computational and Applied Mathematics, Engineering Applications of Artificial Intelligence, Foundations of Computer Science, IEEE Access, J. of Systems and Software, J. of Parallel and Distributed Computing, Logical Methods in Computer Science, Natural Computing, Parallel Computing, Science of Computer Programming, Software Tools and Technology Transfer, Theoretical Computer Science, Trans. on Parallel and Distributed Systems, Trans. on Software Engineering, IEEE/ACM Trans. on Computational Biology and Bioinformatics, IEEE Trans. on Reliability.

6.3 National Activities

- Chairman Advisory Board “Blockchain Research” (ICT topteam/NWO) (2018)
- Chairman NVTI (Nederlandse Vereniging voor Theoretische Informatica) ('09-'13)
- Secretary NVTI (Nederlandse Vereniging voor Theoretische Informatica) ('05-'09)
- Advisory Board The Hague Security Delta ('14-'17)

- Board member IPN, ICT Platform Netherlands, ('16-'18)
 - Board Member IPA (Instituut voor Programmatuurkunde en Algoritmen) ('07-'14)
 - PC member VSNU Student Research Conference (SRC'11,'12,'13,'14,'15,'16)
 - Member NWO VENI EW Selection Committee (Member: '12, Chair: '14, '15)
 - Member NWO TOP-proposals Selection Committee (2018)
 - (Co-)organized national events:
 - BSR Winterschool, *Big Software on the Run*, Ede, 10/2016.
 - CTIT Symposium, *Dependable ICT - who cares?*, Twente, 06/2010.
 - DMCD'09,'14,'16, Dutch Model Checking Day, Twente, 04/2009, 05/2014, 07/2016.
 - Co-promotor PhD students:
 - Simona Orzan (VU, 25/11/2004)
 - Miguel Valero (VU, 5/12/2005)
 - Bahareh Badban (VU, 7/9/2006)
 - Promotor PhD students:
 - Anton Wijs (VU, 2/10/2007)
 - Mohammed Dashti (VU, 27/2/2008)
 - Jens Calamé (UT, 4/9/2008)
 - Taolue Chen (VU, 21/09/2009)
 - Wouter Kuijper (UT, 07/12/2012)
 - Mark Timmer (UT, 13/09/2013) (cum laude)
 - Tri Minh Ngo (UT, 17/04/2014)
 - Alfons Laarman (UT, 9/05/2014) (cum laude)
 - Axel Belinfante (UT, 18/09/2014)
 - Maciej Gazda (TU/e, 15/03/2016) (2nd promotor)
 - Tom van Dijk (UT, 13/07/2016)
 - Waheed Ahmad (UT, 13/04/2017)
 - Oguzcan Oguz (UT, 16/02/2018)
 - Marcus Gerhold (UT, 12/12/2018)
 - Vincent Bloemen (UT, 10/07/2019)
 - Jeroen Meijer (UT, 20/09/2019)
- 3 PhD students are still ongoing
- Reading Committee and/or Opposition in 60 PhD/Habilitation defenses

7 Managerial Activities

7.1 Aarhus University

- 2021-now : Member of the Academic Council at Natural Sciences
- 2020-now : Chair DIGIT WP8 “Automated Verification and Synthesis”
- 2019-now : Member of the Education Board at Computer Science

7.2 University of Twente

- Vice Dean Faculty EEMCS (apr 2016-jun 2017)
- Head of Department Computer Science (jan 2014-jun 2017)
- Scientific Director ad interim CTIT (jan 2014-jan 2015)
- Board member Faculty Club UT (2013-2017)
- Programme Leader Twente Graduate School on *Dependable and Secure Computing*
- Coordinator 3TU.CeDICT-Twente (Centre on Dependable ICT Systems)
- Chair of FMT group (Formal Methods and Tools) (2007-2018)

8 Teaching

8.1 Guest Lectures

- 1990–1992: Student assistant (Utrecht University/CS)
- 1995,1996: Lectures + Exercise classes Logic Programming (UU/CKI, 1st year)
- 1997: Exercise classes Language and Proof (TU/e, 1st year)
- 1998: PVS course (TU/e, OOTI, post-master students)
- 1998: Exercises classes Models of Computation (TU/e, 3rd year)
- 2005-2007: Supervision of 4 internships and students at UU, TU/e, VU and CWI.
- 2005, 2006, 2007: Lecturer “Algorithms for Model Checking” 2IW50 (MSc TU/e)
- 2016: 3 Guest Lectures Radboud University: High-performance Model Checking

8.2 Teaching at University of Twente

- 2007-2018: Supervision of 23 MSc thesis, 10 BSc thesis projects
- Basismodellen (BSc INF+Math: '08, '09, '10, '11, '12, '13)
- Concurrent and Distributed Programming (BSc INF: '11, '12, '13)
- Verification Engineering (BSc INF, project course: '10, '11, '12, '13, '14)
- Bachelor Referaat (BSc INF: '13, '14,'15,'16,'17)
- Modelling and Analysis of Computer Systems 1 (MSc: '08,'09,'10,'11,'12,'14,'15,'16,'17)
- Modelling and Analysis of Computer Systems 2 (MSc: '09,'10,'11,'12,'13,'14,'15,'16,'17)
- Honours Bachelor: Individual Project (UT-wide Honours Programme BSc, '12, '13)
- Languages & Machines (BSc INF+Math, Discrete Structures & Algorithms) ('15,'16,'17,'18)
- Logic Programming (BSc, Programming Paradigms) ('16,'17,'18)
- Security Verification (MSc seminar, '16,'17,'18)
- Software Security (MSc course, 75 students, '16,'17,'18)
- Software Science (MSc seminar, '18)

8.3 Teaching at Aarhus University

- 2019-2021: 6 BSc thesis students
- 2019/20: Computability & Logic, 1st/2nd-year BSc (10EC course)
- from 2022: Algorithmic Model Checking, MSc (10EC course)

9 Research Projects

9.1 Project Leader/(co-)Applicant/Coordinator/Supervisor

- Amazon Research Award 60,000 USD, July 2021
(Type Inference with Boolean Unification, with Magnus Madsen)
- H2020 MSCA Individual Fellowship for PD Simon Wimmer at Aarhus, 2021
(Certywhere: Safe Real-Time Systems: Certification Everywhere)
- PAMPAS, NUFFIC Van Gogh Programme, 2018-2019
(Parallel Algorithms for Model-checking and Parameter Synthesis; Paris-Twente)
- 3TU.BSR, coordinator Twente site, 2PhD + 1 PD
On: Big Software on the Run (monitoring, testing, conformance checking)
- STW project SUMBAT, co-applicant, 1PhD + 0.5 programmer (2015-2019)
On: Super-Sizing Model-Based Testing
- FP7 IP TresPass: WP leader, 2015-2016, 1 PhD
On: Risk Estimation of Socio-Technical Security
- FP7 STREP: SENSATION, WP leader, Co-applicant. 11/2012-11/2015, 1 PhD
On: Self Energy-Supporting Autonomous Computing.
- NWO-EW project MaDriD. Applicant. 05/2012-05/2016, 1 PhD
On: Multicore Decision Diagrams.
- NWO-EW project VOCHS. Co-applicant. 09/2010-09/2014, 1 PhD
On: Verification of complex hierarchical systems
- NWO-EW project Syrup. Co-applicant. 03/2009-03/2013, 1 PhD
On: Symbolic Reduction of Probabilistic Models.
- EU FP7-TRANSPORT: INESS. Co-applicant. 10/2008-10/2011, 1 Postdoc
On: Integrated European Railway Signalling System.
- EU FP6-NEST-PATH: EC-MOAN. Project Coordinator, 2/2007-2/2010, 1 Postdoc
On: “Scalable Modeling and Analysis Techniques to Study Emergent Cell-behaviour, Understanding the *E. Coli* stress response”.
- NWO-EW project VEMPS. Co-applicant. 09/2006-08/2010, 1 PhD
On: Multi-party security protocol analysis with Process Theory and Epistemic Logic.
- NWO-Focus project VeriGEM. Co-applicant. 11/2005-11/2008, 1 Postdoc
On: Verification Grid for Enhanced Model Checking.
- NWO-EW project MoveBP. Co-applicant. 01/2004-01/2008, 1 PhD
On: Modeling and Verification of Business Processes

- NWO-EW project IT-VDS. Applicant, project leader, 10/2001–10/2005, 1 PhD
On: Integrating Techniques for the Verification of Distributed Systems
- STW/Progress project. Applicant, project leader, 03/2000–03/2005, 2 PhD
On: Formal methods for Shared Dataspace Architectures.

9.2 Active Project Member

- ROCKS: NWO-DFG network, 2009–2013
On: RigorOUS dependability analysis using model CheckKing for Stochastic systems
- Quasimodo: FP7 project on Quantitative Modeling and Analysis
(U Aalborg, Aachen, Brussel, CNRS, Saarbrücken, ESI; Chess IT, Therma, Hydac)
- SENVA: International Joint Research Team on Safety-Critical Systems
Partners: CWI (SEN2), INRIA (Vasy).
- BSIK-BRICKS: Basic Research in Informatics for Creating the Knowledge Society.
On: Parallel and Distributed Computing, Algorithms and Formal Methods.
Partners: CWI, NWO, TU-Delft, TU/e, U Twente, U Utrecht.
- European ITEA-project TT-medal; ITEA best-achievement Award-winner 1995.
Site leader, staff member, 01/2004–01/2005.
On: automatic TTCN-3 test generation from UML 2.0 models.
- NWO-EW project ACCOUNT. Staff member, 01/2004-01/2008.
On: accountability in electronic commerce protocols.
Partners: CWI, UT, VU.
- NWO-EW project TIPSy. Staff member, 07/2003-07/2007.
On: tools for performance analysis and system verification.
Partners: TU/e (Departments of CS and ME), ASML, CWI.
- KTV-project (Min. of Defense). staff member, 02/2002–04/2002.
On: formal methods for a data-acquisition unit in a LYNX helicopter.
Partners: Dutch Royal Navy (funding), NLR, CWI.
- Systems Validation Center (SVC). Project member, 09/1999–12/2002.
On: model checking and theorem proving for Telecom systems.
Partners: Telematica Institute, UT, CMG, IBM, KPN, Lucent, CWI.
- Philips Natlab internal project. Project member, 05/2000–12/2000.
On: automated test generation for MPEG-audio decoders.
Partners: Philips Natlab, CWI.
- Senter-project ORKEST. Postdoc, 11/1996–05/1999.
On: formal requirements specification of command and control systems.
Partners: Hollandse Signaalapparaten bv (coordinator), TU/e, RUG, UvA, CWI.
- EU Science Twinning Contract. Scientific assistant, 05/1994–01/1995.
On: (termination) proofs and computation.
Partners: LMU Munich, Leeds University, Oslo University.

10 List of Publications

According to Google Scholar: h-index 34, 3870 citations (22 Sep 2021).

10.1 Theses

1. J.C. van de Pol, *Modularity in many-sorted term rewriting systems*. Master's thesis, Utrecht (Informatica), 1992, 37 pages.
2. J.C. van de Pol, *Termination of higher-order rewrite systems*. PhD thesis, Utrecht (Philosophy), 1996, 160 pages.

10.2 Chapters in Books and Festschrifts

1. R. Langerak, J.C. van de Pol, Janine N. Post and Stefano Schivo, *Improving the Timed Automata Approach to Biological Pathway Dynamics*. In: Models, Algorithms, Logics and Tools (KimFest 2017), Festschrift Kim Larsen, LNCS 10460, Springer, pp:96-111, 2017.
2. J. Barnat, V. Bloemen, A. Duret-Lutz, A. Laarman, L. Petrucci, J.C. van de Pol, E. Renault, *Parallel Model Checking Algorithms for Linear-Time Temporal Logic*. In: Y. Hamadi, and L. Sais (Eds.), *Handbook of Parallel Constraint Reasoning*, Springer, pp:457-507, 2018.
3. Tom van Dijk, Jaco van de Pol, *Multi-core Decision Diagrams*. In: Y. Hamadi, and L. Sais (Eds.), *Handbook of Parallel Constraint Reasoning*, Springer, pp:509-545, 2018.
4. Fabrice Kordon, Michael Leuschel, Jaco van de Pol, and Yann Thierry-Mieg, *Software Architecture of Modern Model Checkers*. In: B. Steffen and G. Woeginger (Eds.), *Computing and Software Science, State of the Art and Perspective*, LNCS 10,000, 2019.
5. Jaco van de Pol and Jeroen Meijer, *Synchronous or Alternating? LTL Blackbox Checking of Mealy Machines by Combining the LearnLib and LTSmin*. In: Models, Mindsets, Meta: The What, the How, and the Why Not? Festschrift Bernhard Steffen, LNCS 11200, Springer, pp. 1-14, 2019.
6. Hubert Garavel, Maurice ter Beek, Jaco van de Pol, *The 2020 Expert Survey on Formal Methods*. FMICS 2020, LNCS 12327, Springer, pp:3–69, 2020.

10.3 Edited volumes

1. J.C. van de Pol, editor, Special Issue for the FMICS'02,'03 workshops. *Software Tools for Technology Transfer* 5(2-3): 105–106, 2004.
2. T. Arts and J.C. van de Pol, editors, Special Issue for the FMICS'04 workshop. *Software Tools for Technology Transfer*, 7(3):195–196, 2005.
3. J.M.T. Romijn, G. Smith, and J.C. van de Pol, editors. *Integrated Formal Methods, 5th Int. Conf., IFM 2005, Eindhoven, Proceedings*, LNCS 3771, Springer, 2005.

4. M. Leucker, J.C. van de Pol, editors, Proceedings of PDMC'05, *Electronic Notes in Theoretical Computer Science* 135(2):1-2, 2006
5. J.M.T. Romijn, G. Smith, and J.C. van de Pol, editors, Special Issue IFM Doctoral Symposium 2005, *Electronic Notes in Theoretical Computer Science* 191:1-2, 2007
6. L. Brim, B. Haverkort, M. Leucker, J.C. van de Pol, editors, *Formal Methods: Applications and Technology*, Proc. of FMICS+PDMC'06, 2007, LNCS volume 4346.
7. L. Brim, J.C. van de Pol, editors, Proceedings of PDMC 2009, *Electronic Proceedings in Theoretical Computer Science* 14, 2009.
8. J.C. van de Pol, and M. Weber, editors, Proceedings of *SPIN Workshop on Model Checking Software*, Twente, 2010, LNCS volume 6349.
9. M. Huisman, J.C. van de Pol, editors, Proc. of *AVOCS workshop on Automated Verification of Critical Systems*, Twente, 2014, Elec. Comm. of the EASST, Vol. 70.
10. M. Huisman, J.C. van de Pol, guest editors, Special issue in *SCP, Science of Computer Programming*, on selected AVOCS'14 papers. SCP 128:1 (2016).

10.4 International refereed journals

1. J.C. van de Pol, Operational semantics of rewriting with priorities. *Theoretical Computer Science*, 200(1-2):289–312, 1998.
2. H. Zantema and J.C. van de Pol, A rewriting approach to binary decision diagrams. *Journal of Logic and Algebraic Programming*, 49:61–86, 2001.
3. J.J.M. Hooman and J.C. van de Pol. Semantic models of a timed distributed data-space architecture. *Theoretical Computer Science*, 331(2-3):291–323, 2005.
4. W. Fokkink, J.C. van de Pol, and S. Vijay. Which two-sorted algebras of booleans and naturals have a finite basis? *Algebra Universalis*, 52(4):469–485, 2005.
5. B. Badban, W. Fokkink, J.F. Groote, J. Pang, and J.C. van de Pol. Verification of a sliding window protocol in μ CRL and PVS. *Formal Aspects of Computing*, 17(3):342–388, 2005.
6. B. Badban and J.C. van de Pol. Zero, successor and equality in BDDs. *Annals of Pure and Applied Logic*, 133(1-3):101–123, 2005.
7. S.M. Orzan and J.C. van de Pol, Distribution of a simple shared dataspace architecture. *Fundamenta Informaticae*, 73(4):535–559, 2006.
8. W. Fokkink, J. Pang and J.C. van de Pol, Cones and Foci: A Mechanical Framework for Protocol Verification. *Formal Methods in System Design*, 29:1–31, 2006.
9. M. Valero Espada, J.C. van de Pol, An abstract interpretation toolkit for μ CRL, *Formal Methods in System Design*, 30(3):249–273, 2007
10. B. Badban, J.C. van de Pol, O. Tveretina and H. Zantema, Generalizing DPLL and Satisfiability for Equalities, *Information and Computation* 205(8):1188-1211, 2007.
11. S.C.C. Blom, Thomas Deiß, N. Ioustinova, A. Kontio, J.C. van de Pol, A. Rennoch, and N. Sidorova, Simulated Time for Host-Based Testing with TTCN-3. In: *Software Testing, Verification and Reliability* 18(1):29–49, March 2008.

12. P. Crouzen, J.C. van de Pol and A. Rensink, Applying Formal Methods to Gossiping Networks with mCRL and Groove. In: *ACM SIGMETRICS performance evaluation review* 36(3):7-16, 2008
13. J. Barnat, J. Chaloupka, and J.C. van de Pol, Distributed Algorithms for SCC Decomposition. In: *Journal of Logic and Computation*, 21(1):23-44, 2011.
14. S.C.C. Blom, B. Lissner, J.C. van de Pol and M. Weber, A Database Approach to Distributed State-Space Generation. In: *Journal of Logic and Computation*, 21(1):45-62, 2011.
15. A.J. Wijs, J.C. van de Pol and E.M. Bortnik Solving scheduling problems by untimed model checking. The clinical chemical analyser case study. In: *Journal on Software Tools for Technology Transfer* 11 (5). pp. 375-392, 2009.
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