

# Full Curriculum Vitae – Jaco van de Pol – July 2023

## 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

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Formal Methods and Tools

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## 2 Research Interests

Model checking, theorem proving, SAT/SMT solving and testing techniques, for the analysis and optimization of safety, dependability, efficiency 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 distributed and embedded systems, socio-technical and biological systems and quantum circuit optimization and compilation.

## 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
- Research Management/Academic Leadership courses  
(Leeuwendaal 2005, Eva Wilthing 2008, Krauthammer 2011)
- BKO – University Teaching Qualification UTQ 2013

## 6 Academic Duties and Honours

### 6.1 Prizes and Awards

- Distinguished Paper Award with Magnus Madsen, ECOOP 2023
- Outstanding Domain Submission Award with Irfansha Shaik, IPC 2023
- 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: 2<sup>nd</sup> 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: 2<sup>nd</sup> 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: 2<sup>nd</sup> and 3<sup>rd</sup> 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:
  - Joint keynote speaker: CONCUR+FMICS+FORMATS, Antwerpen, 2023
  - 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, Danmark, 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:
  - Reviewer Research Proposal for Austrian Science Fund, FWF (2023)
  - 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).
- Selection committee best tool paper awards ETAPS (2022, 2023)

- 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
  - University of Nancy, Invited Professor (2022, one month)
  - Paris 13, LIPN, Invited Professor (2022, three weeks)
  - 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 2021, 1st IW on Applicable Formal Methods, Beijing
  - SYNCOP 2019, IW Synthesis of Complex Parameters, Prague
  - TACAS 2015, IC on Tools & Algs for the Construction and Analysis, tool chair
  - AVOCS 2014, IW on Automated Verification of Critical Systems, Twente, NL
  - SPIN 2010, IW on Model Checking Software, Twente, The Netherlands
  - 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, Lisbon
  - IFM 2005, IC on Integrated Formal Methods, Eindhoven, The Netherlands
- PC-member of ~90 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
  - ACSD '17,'18,'19: Applications of Concurrency in System Design
  - AMAST '04,'06: Algebraic Methodology And Software Technology
  - FORTE '19: Formal Techniques for Distributed Systems
  - FMCAD '18: Formal Methods in Computer Aided Design

- FMICS '07,'09,'10,'11,'13,'14,'15,'18,'19,'20,'21,'22,'23: Formal Methods in Industrial Critical Systems
  - FMICS/AVOCS '16,'17
  - AVOCS '13,'14,'15: Automated Verification of Critical Systems
  - FORTE/FMOODS '13: Formal Techniques for Distributed Systems
  - FSCD '19: Formal Structures for Computation and Deduction
  - ICFEM '14,'15,'16,'17,'18,'19,'20: Formal Engineering Methods
  - IFM '05,'07,'22: Integrated Formal Methods
  - LATA '15: Language and Automata Theory and Applications
  - PECCS '13,'14: Pervasive, Embedded Computing and Communicating Systems
  - Petri Nets'21,'22,'23
  - SOFSEM '11: Current Trends in Theory and Practice of Computer Science
  - SPIN '10,'12,'14,'15,'18,'19,'21,'22: Model Checking of Software
  - SETTA'19,'20,'21: Symp. on Dependable Software Engineering
  - SBMF '19: Brazilian Symposium on Formal Methods
  - TASE'23: Theoretical Aspects of Software Engineering
  - TMPA '17: Tools & Methods of Program Analysis
  - 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, 2021), SCP (2016)
  - Reviewer for international journals: Comm. of the ACM, Computers and Security, Computational and Applied Mathematics, Concurrency and Computation (practice and experience), Engineering Applications of Artificial Intelligence, Formal Aspects of Computing, Foundations of Computer Science, Fundamenta Informaticae, IEEE Access, J. of Parallel and Distributed Computing, J. of Systems and Software, J. of Systems Architecture, 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) (2<sup>nd</sup> 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)
- 5 PhD students are still ongoing
- Reading Committee and/or Opposition in 65 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, 1<sup>st</sup> year)
- 1997: Exercise classes Language and Proof (TU/e, 1<sup>st</sup> year)
- 1998: PVS course (TU/e, OOTI, post-master students)
- 1998: Exercises classes Models of Computation (TU/e, 3<sup>rd</sup> 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: 1st supervisor of 22 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)

### 8.3 Teaching at Aarhus University

- 2019-2023: 16 BSc + 3 MSc thesis students
- from 2019: Computability & Logic, 1st/2nd-year BSc (10EC course)
- from 2022: Algorithmic Model Checking, MSc (10EC course)
- from 2022: Member of the Danish Censor List in CS (censorkorpset i datalogi)

## 9 Research Projects

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

- Innovationsfonden DK, “Automated Planning for Quantum Circuit Optimization”, with Kvantify and Aarhus University (company postdoc I Shaik), 2023
- SYNATIC, co-supervised with Laure Petrucci, LIPN, Sorbonne Paris Nord, 2022 (SYNthesis in PArametric TImed games with Concurrency and data)
- DIREC Bridge project “Secure Internet of Things”, Nov 2021 (joint with AU, AAU, CBS, DTU and eight industrial partners)
- 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.
- 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 CheckIng for Stochastic systems
- Quasimodo: FP7 project on Quantitative Modeling and Analysis. Partners: 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: On: Parallel and Distributed Computing, Algorithms. 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.
- 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, ASML, CWI.
- KTV-project Min. of Defense. staff member, 02/2002–04/2002. On: formal methods for data-acquisition in a LYNX helicopter. Partners: Dutch Royal Navy, 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 ORKEST. Postdoc, 11/1996–05/1999. Formal requirements specification of C&C systems. Partners: Hollandse Signaalapparaten, TU/e, RUG, UvA, CWI.
- EU Science Twinning Contract. Scientific assistant, 05/1994–01/1995. On: Termination, proofs and computation. Partners: LMU Munich, Leeds U, Oslo U.

## 10 List of Publications

According to Google Scholar: h-index 35, 4301 citations (21 Apr 2023).

### 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.
11. Mario Gleirscher, Jaco van de Pol and Jim Woodcock, editors, Proceedings First Workshop on *Applicable Formal Methods*. EPTCS 349, 23 November 2021.

#### 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  $\mu$ 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.
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