

Books, edited Books, Journals, Conference and Workshop Papers

Books

1. Rettberg, Achim: Low-power Driven High Level Synthesis for Dedicated Architectures. Shaker Verlag, Jan 2007 (Dissertation)

Edited Books

2. Wehrmeister, Marco A.; Kreutz, Marcio; Götz, Marcelo; Henkler, Stefan; Pimentel, Andy D.; Rettberg, Achim editor. Analysis, Estimations and Applications of Embedded Systems, 2023, Springer Verlag
3. Götz, Marcelo; Schirner, Gunar; Wehrmeister, Marco A.; Al Faruque, Mohammad A.; Rettberg, Achim editor. System Level Design from HW/SW to Memory for Embedded Systems, 2017, Springer Verlag
4. Schirner, Gunar; Götz, Marcelo; Rettberg, Achim; Zanella, Mauro C.; Rammig, Franz editor. Embedded Systems: Design, Analysis and Verification, 2013, Springer Verlag
5. Higuera-Toledano, Teresa; Brinkschulte, Uwe; Rettberg, Achim editor. Self-Organization in Embedded Real-Time Systems, 2013, Springer Verlag
6. Becker, Jürgen; Reis, Ricardo; Bampi, Sergio; Rammig, Franz; Rettberg, Achim; Proceedings of the Brazilian-German Workshop on Micro-, Nanotechnologies and Embedded Systems, 2010
7. Rettberg, Achim; Reis, Ricardo editor. EduTech Tagungsband, 2010
8. Rettberg, Achim; Zanella, Mauro C.; Keckeisen, Michael; Ammann, Michael; Rammig, Franz Josef editor. Analysis, Architectures and Modelling of Embedded Systems. 2009, Springer Verlag
9. Rettberg, Achim; Zanella, Mauro C.; Dömer, R.; Gerstlauer, A.; Rammig, Franz Josef editor. Embedded System Design: Topics, Techniques and Trends. 2007, Springer Verlag
10. Rettberg, Achim; Zanella, Mauro C.; Rammig, Franz Josef editor. From Specification to Embedded Systems Application. 2005, Springer Verlag
11. Rettberg, Achim; Bobda, Christophe editor. New Trends and Technologies in Computer-Aided Learning for Computer-Aided Design. 2005, Springer Verlag
12. Kleinjohann, Bernd; Gao, Guang R.; Kopetz, Hermann; Kleinjohann, Lisa; Rettberg, Achim: Design Methods and Applications for Distributed Embedded Systems. Kluwer Academic Publishers, Aug 2004
13. Kleinjohann, Bernd; Kim, K.H.; Kleinjohann, Lisa; Rettberg, Achim: Design and Analysis of Distributed Embedded Systems. Kluwer Academic Publishers, Aug 2002

Journals (peer-reviewed)

14. Steinmetz, C., Schroeder, G. N., Rodrigues, R. N., Rettberg, A., & Pereira, C. E., Key-components with granularity: Use case Car-as-a-Service, IEEE Transactions on Emerging Topics in Computing, 2021
15. Schroeder, G. N., Steinmetz, C., Rodrigues, R. N., Henriques, R. V. B., Rettberg, A., & Pereira, C. E., A Methodology for Digital Twin Modeling and Deployment for Industry 4.0. Proceedings of the IEEE, 2020

16. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, Ein Modellierungsansatz für eine Systemarchitekturbeschreibung von Automotive-Systemen mit MARTE und SysML, Journal Automatisierungstechnik, DeGryter, June 2019
17. Fabíola Gonçalves C. Ribeiro, Carlos E. Pereira, Achim Rettberg, Michel S. Soares, Model-based requirements specification of real-time systems with UML, SysML and MARTE, Journal of Software & Systems Modeling, pp. 1-19, Springer-Verlag Berlin Heidelberg 2016
18. Maher Fakhri, Kim Gruettner, Achim Rettberg, Martin Fränzle, State-Based Real-Time Analysis of SDF Applications on MOSoCs with Shared Communication Resources, Journal of System Architecture, 2015
19. Gezgin, Tayfun; Rettberg, Achim; Stierand, Ingo; Henkler, Stefan: State-based Scheduling Analysis for Distributed Real-Time Systems. Journal of Design Automation for Embedded Systems, 2013
20. Götz, Marcelo; Rettberg, Achim; Pereira, Carlos E.: Run-time reconfigurable RTOS for reconfigurable systems-on-chip. Journal of Embedded Computing (JEC) 1 (2009), pp. 39-51, IOS Press
21. Hardt, Wolfram; Rammig, Franz Josef; Böke, Carsten; Ditze, Carsten; Stroop, Joachim; Rettberg, Achim; Del Castillo, Giuseppe; Kleinjohann, Bernd; Teich, Jürgen: IP-based System Design within the PARADISE Design Environment. EUROMICRO Journal 2000

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2022

22. C. Steinmetz, G. N. Schroeder, A. Binotto, S. Panikkar, B. Papenfuß, C. Schmidt, A. Rettberg, C. E. Pereira, "Digital Twins modeling and simulation with Node-RED and Carla", Advanced Maintenance Engineering, Services and Technology - AMEST, 2022
23. C. Steinmetz, G. N. Schroeder, A. Sulak, K. Tuna, A. Binotto, A. Rettberg, C. E. Pereira, "A methodology for creating semantic digital twin models supported by knowledge graphs", IEEE International Conference on Emerging Technologies and Factory Automation, ETFA 2022
24. C. Steinmetz, L. F. A. Pessoa, G. N. Schroeder, A. Binotto, A. Rettberg, C. E. Pereira, "Towards model integration for Digital Twins", XII Brazilian symposium on computing systems engineering (SBESC). IEEE, 2022 (to appear).

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25. Schroeder, G. N., Steinmetz, C., Rodrigues, Rettberg, A., & Pereira, C. E., Digital Twin connectivity topologies. IFAC-PapersOnLine, INCOM June 2021
26. Joao V. Assmann, Marcelo Götz, Ivan Müller, Achim Rettberg, Distributed Embedded Platform for Controllers Following the Supervisory Control Theory, in Proceedings of 3rd International Conference on Electrical Communication and Computer Engineering (ICECCE), June 2021
27. Himanshu Agarwal, Rafal Dorociak, Achim Rettberg, Deep Learning Classifiers for Automated Driving: Quantifying the Trained DNN Model's Vulnerability to Misclassification, in Proceedings of 7th International Conference on Vehicle Technology and Intelligent Transportation Systems (VEHITS), April 2021

28. Steinmetz, C., Rettberg, A., Schroeder, G., Rodrigues, R. N., & Pereira, C. E., Enabling and supporting car-as-a-service by digital twin modeling and deployment, Design, Automation & Test in Europe Conference & Exhibition (DATE), February 2021
29. Himanshu Agarwal, Rafal Dorociak, Achim Rettberg, On safety assurance case for deep learning based image classification in highly automated driving, Design, Automation & Test in Europe Conference & Exhibition (DATE), February 2021

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30. Steinmetz, C., Rettberg, A., Schroeder, G., & Pereira, C. E., A digitalization concept for the interaction between users and car-as-a-service, in X Brazilian Symposium on Computing Systems Engineering (SBESC), November 2020
31. Himanshu Agarwal, Rafal Dorociak, Achim Rettberg, A strategy for developing a pair of diverse deep learning classifiers for use in a 2-classifier system, in X Brazilian Symposium on Computing Systems Engineering (SBESC), November 2020

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32. Kristian Rother, Achim Rettberg, GermEval 2019 - Task 1: Logistic Regression and Naive Bayes for Hierarchical Multi-label Classification, Proceedings of the Conference on Natural Language Processing (KONVENS), Nuremberg-Erlangen, Germany, October 2019
33. Quelita Ribeiro, Achim Rettberg, Fabíola Ribeiro, Michel Soares, A Comparative Analysis between SysML and AADL when Modeling a Real-Time System, Proceedings of 6th IFIP International Embedded Systems Symposium (IESS), Friedrichshafen, Germany, September 2019
34. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Charles Steinmetz, Michel Soares, A Proposal to Trace and Maintain Requirements Constraints of Real-Time Embedded Systems, Proceedings of 6th IFIP International Embedded Systems Symposium (IESS), Friedrichshafen, Germany, September 2019
35. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, A Methodology to Early Design and Evaluation of Real-Time Embedded Systems considering Non-Functional Constraints, published in PhD Forum publication and presentation at Design Automation Conference (DAC), Las Vegas, USA, June 2019

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36. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, Non-Functional Constraints Annotation to Real-Time and Embedded System Design, Proceedings of 8th Brazilian Symposium on Computing Systems Engineering (SBESC), Salvador do Bahia, Brazil, November 2018
37. Charles Steinmetz, Achim Rettberg, Carlos E. Pereira, Fabíola G.C. Ribeiro, Greyce Schroeder, Internet of Things Ontology for Digital Twin in Cyber Physical Systems, Proceedings of 8th Brazilian Symposium on Computing Systems Engineering (SBESC), Salvador do Bahia, Brazil, November 2018
38. Kristian Rother, Achim Rettberg, UMLFiT at GermEval-2018: A Deep Neural Language Model for the Classification of Hate Speech in German Tweets, Proceedings of the Conference on Natural Language Processing (KONVENS), Vienna, Austria, September 2018

39. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, An Approach for Architectural Design of Automotive Systems using MARTE and SysML, Proceedings of 14th International Conference on Automation Science and Engineering (CASE), Munich, Germany, August 2018
40. Steinmetz, C., Rettberg, A., Ribeiro, F. G. C., Schroeder, G., Soares, M. S., & Pereira, C. E., Using Ontology and Standard Middleware for integrating IoT based in the Industry 4.0. IFAC-PapersOnLine, 51(10), July 2018
41. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, Model-Based Design Methodology for Early Evaluation of Real-Time and Embedded Constraints, Proceedings of 16th IEEE International Conference on Industrial Informatics (INDIN), Porto, Portugal, July 2018
42. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, SPES Methodology and MARTE Constraints in Architectural Design, Proceedings of IEEE Symposium on Computers and Communications (ISCC), Natal, Brazil, June 2018
43. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Charles Steinmetz, Michel Soares, An Approach to Formalization of Architectural Viewpoints Design in Real-Time and Embedded Domain, Proceedings of 21st IEEE Computer Society Symposium on Object/Service-Oriented Real-Time Distributed Computing (ISORC), Singapore, Singapore, May 2018
44. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, Multi-formalism in Different Levels of Abstraction for Requirements Engineering and Design of Real-Time Systems, published in PhD Forum publication and presentation at Design, Automation and Test in Europe (DATE), Dresden, Germany, March 2018

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45. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, Guidelines for using MARTE Profile Packages Considering Concerns of Real-Time Embedded Systems, Proceedings of 15th IEEE International Conference on Industrial Informatics (INDIN), Emden, Germany, July 2017
46. Fabíola Ribeiro, Achim Rettberg, Carlos Eduardo Pereira, Michel Soares, A Technique to Architect Real-Time Embedded Systems with SysML and UML through Multiple Views, Proceedings of 19th International Conference on Enterprise Information Systems, Porto, Portugal, April 2017
47. Fabíola Ribeiro, Achim Rettberg, Michel Soares, Carlos Eduardo Pereira, A Model-Based Engineering Methodology for Requirements and Formal Design of Embedded and Real-Time Systems, Proceedings of 50th Hawaii International Conference on System Sciences (HICSS), Honolulu, USA, Januar 2017
48. Fabíola Ribeiro, Achim Rettberg, Michel Soares, Carlos Eduardo Pereira, Applying MARTE Profile for Optimal Automotive System Specifications and Design, Proceedings of 50th Hawaii International Conference on System Sciences (HICSS), Honolulu, USA, Januar 2017

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49. Fabíola Ribeiro, Achim Rettberg, Michel Soares, Carlos Eduardo Pereira, An Analysis of the Value Specification Language Applied to the Requirements Engineering Process of Embedded and Real Time Systems, Proceedings of 4th IFAC Symposium on Telematics Applications, Porto Alegre, Brasilien, November 2016

50. Jan Jatzkowski, Peer Adelt, Achim Rettberg, Hierarchical Scheduling for Plug-and-Produce, Proceedings of 3rd International Conference on System-integrated Intelligence (SysInt), Paderborn, Deutschland, Juni 2016
51. Niklas May-Johann, Johannes Behn and Achim Rettberg, Towards a self-organization system partitioning for controller network, Workshop on Self-Organizing Real-Time Systems (SORT), York, England, Mai 2016
52. Stefan Walter and Achim Rettberg, Formal requirements for specification of timing constraints in distributed real-time systems, Workshop on Self-Organizing Real-Time Systems (SORT), York, England, Mai 2016
53. Fabíola Gonçalves, Achim Rettberg, Carlos E. Pereira and Michel Soares, Annotating SysML Models with MARTE Time Stereotypes for Requirements Specification and Design of Real-Time Systems, Workshop on Self-Organizing Real-Time Systems (SORT), York, England, Mai 2016
54. Sébastien Dubé, Hella Engineering France, Mesut Özhan, INCHRON GmbH, Achim Rettberg, Hella Electronics, A Practical Approach to the Simulation of Safety-critical Automotive Control Systems considering Complex Data Flows, Proceedings of Embedded Real Time Software and Systems Congress, Toulouse, Frankreich, Januar 2016

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55. Malte Falk, Stefan Walter and Achim Rettberg, A UML profile to couple the production code generator TargetLink with UML design tools, Proceedings of International Embedded Systems Symposium (IESS), Foz do Iguaczu, Brasilien, November 2015
56. Jan Jatzkowski, Marcio Kreutz and Achim Rettberg, Hierarchical Multicore-Scheduling for Virtualization of Dependent Real-Time Systems, Proceedings of International Embedded Systems Symposium (IESS), Foz do Iguaczu, Brasilien, November 2015
57. Tayfun Gezgin, Björn Koopmann and Achim Rettberg, Combining an Iterative State-based Timing Analysis with a Refinement Checking Technique, Proceedings of International Embedded Systems Symposium (IESS), Foz do Iguaczu, Brasilien, November 2015
58. Lucas Pluceno Behnck, Dionisio Doering, Carlos Eduardo Pereira, Achim Rettberg, A Simulated Annealing Algorithm for Small UAVs Path Planning, Proceedings of the 2nd IFAC Conference on Embedded Systems, Computational Intelligence and Telematics in Control (CESCIT), Maribor, Slovenia, June, 2015
59. Stefan Walter, Achim Rettberg, Marcio Kreutz, Towards formalized model-based requirements for a seamless design approach in safety-critical systems development, Workshop on Self-Organizing Real-Time Systems (SORT), Auckland, New Zealand, April 2015
60. Markus Oertel, Peter Battramy, Omar Kacimiz, Sebastian Gerwinn and Achim Rettberg, A Compositional Safety Specification Using a Contract-Based Design Methodology, Proceedings of the 5th International Conference on Performance, Safety and Robustness in Complex Systems and Applications (PESARO), Barcelona, Spain, April 2015
61. Tayfun Gezgin, Stefan Henkler and Achim Rettberg, Reducing Re-Validation Efforts for Real-time Systems, Proceedings of 11th Dagstuhl-Workshop Modellbasierte Entwicklung eingebetteter Systeme (MBEES), Dagstuhl, Germany, March 2015

62. Raphael Weber, Achim Rettberg and Stefan Henkler, Safety-Critical Embedded Systems Design considering multiple Aspects, Proceedings of 11th Dagstuhl-Workshop Modellbasierte Entwicklung eingebetteter Systeme (MBEES), Dagstuhl, Germany, March 2015
63. Maher Fakih, Kim Gruettner, Achim Rettberg, Martin Fränzle, State-Based Real-Time Analysis of SDF Applications on Multi-Cores, Proceedings of the HiPEAC Conference, Amsterdam, Netherlands, January 2015

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64. Dionisio Doering, Alecio P. D. Binotto, S. Zimmermann, Carlos E. Pereira, Achim Rettberg, A Heterogenous Image Processing Platform for High-Speed Scientific Cameras, Proceedings of IEEE Nuclear Science Symposium and Medical Imaging Conference (NPSS), Seattle, USA, November 2014
65. Tim Schmidt, Kim Gruettner, Rainer Doemer, Achim Rettberg, A Program State Machine Based Virtual Processing Model in SystemC, Proceedings of the 4th Embedded Operating Systems Workshop (EWiLi), Lisboa, Portugal, November 2014
66. Tayfun Gezgin, Stefan Henkler, Ingo Stierand, Achim Rettberg, Impact Analysis for Timing Requirements on Real-Time Systems, Proceedings of the 20th IEEE International Conference on Embedded and Real-Time Computing Systems and Applications (RTCSA), Chongqing, China, August 2014
67. Silvia Botelho, Achim Rettberg, Nelson Duarte Filho, Danubia Espindola, Marcos Amaral, Carlos Eduardo Pereira, Renato Ventura Bayan Henriques, Towards Intelligent Maintenance Systems: Rescuing Human Operator and Context Factors, Proceedings of the 19th World Congress of the International Federation of Automatic Control (IFAC), Cape Town, South Africa, August 2014
68. Rafael Lerm, Dionisio Doering, Rodrigo H. A. Rech, Carlos E. Pereira, Achim Rettberg, A Model-Based Design Space Exploration for Embedded Image Processing in Industrial Applications, Proceedings of IEEE International Conference on Industrial Informatics (INDIN), Porto Alegre, Brazil, July 2014
69. Tayfun Gezgin, Stefan Henkler, Ingo Stierand, Achim Rettberg, Evaluation of a State-based Real-Time Scheduling Analysis Technique, Proceedings of IEEE International Conference on Industrial Informatics (INDIN), Porto Alegre, Brazil, July 2014
70. Markus Oertel, Sebastian Gerwinn, Achim Rettberg: Simulative Evaluation of Contract-based Change Management, Proceedings of IEEE International Conference on Industrial Informatics (INDIN), Porto Alegre, Brazil, July 2014
71. Guilherme Baumgarten, Markues Oertel, Achim Rettberg, Marcelo Götz, First Results of Automatic Fault-Injection in an AUTOSAR Tool-chain, Proceedings of IEEE International Conference on Industrial Informatics (INDIN), Porto Alegre, Brazil, July 2014
72. Sören Schreiner, Kim Grüttner, Sven Rosinger and Achim Rettberg, Autonomous flight control meets custom payload processing: A mixed-criticality civilian UAV case-study, Proceedings of the 5th IEEE Workshop on Self-Organizing Real-Time Systems (SORT), Reno, USA, Juni 2014
73. Markus Oertel, Ahmed Mahdi, Eckard Böde and Achim Rettberg, Contract-based Safety: Specification and Application Guidelines, Proceedings of the 1st International Workshop on Emerging Ideas and Trends in Engineering of Cyber-Physical Systems (EITEC), Berlin, Germany, April 2014

74. Raphael Weber, Stefan Henkler, Achim Rettberg, Multi-Objective Design Space Exploration for Cyber-Physical Systems satisfying hard Real-Time and Reliability Constraints, Proceedings of IFIP First International Workshop on Design Space Exploration of Cyber-Physical Systems (IDEAL), Berlin, April 2014
75. Maher Fakih, Kim Gruettner, Martin Fränzle and Achim Rettberg, Performance analysis of SDFAs Mapped to Crossbar Switch Architectures: Multi-phase, Proceedings of the Embedded Realtime Software and Systems (ERTS), Toulouse, France, February 2014

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78. Maher Fakih, Kim Grüttner, Achim Rettberg, Martin Fränzle: Exploiting Segregation in Bus-Based MPSoCs to Improve Scalability of Model-Checking-Based Performance Analysis for SDFAs, Proceedings of the 4th International Embedded Systems Symposium (IESS), Paderborn, Germany, Juni 2013
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81. Markus Oertel, Achim Rettberg: Reducing Re-Verification Effort by Requirements-based Change Management, Proceedings of the 4th International Embedded Systems Symposium (IESS), Paderborn, Germany, Juni 2013
82. Maher Fakih, Kim Grüttner, Martin Fränzle, Achim Rettberg: Towards Performance Analysis of SDFGs Mapped to Shared-Bus Architectures Using Model-Checking, Proceedings of Design Automation and Test in Europe (DATE), Grenoble, März 2013 (**Best Paper Candidate**)
83. Ina Podolski, Achim Rettberg: Self-configurable Automotive Embedded Systems, in Higuera-Toledano, Teresa; Brinkschulte, Uwe; Rettberg, Achim editor. Self-Organization in Embedded Real-Time Systems, 2013, Springer Verlag

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88. Ralph Görgen, Florian Voit, Achim Rettberg: SystemC-Based Emulation of Hardware Platforms in a Physical Environment, Proceedings of Design Automation and Test (DATE) Workshop: Quo Vadis, Virtual Platforms? Challenges and Solutions for Today and Tomorrow (QVVP), Dresden, Germany, März 2012
89. Ralph Görgen, Florian Voit, Achim Rettberg: SystemC-based Emulation of Hardware Platforms in Physical Environment, Proceedings of Design Automation and Test (DATE) Workshop: Quo Vadis, Virtual Platforms? Challenges and Solutions for Today and Tomorrow (QVVP), Dresden, Germany, März 2012
90. Ralph Görgen, Florian Voit, Achim Rettberg: Simulation of SystemC Modules in Physical Environment, University Booth at Design Automation and Test in Europe (DATE), Dresden, Germany, März 2012
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95. Kim Grüttner, Andreas Herrholz, Ulrich Kühne, Daniel Große, Achim Rettberg, Wolfgang Nebel and Rolf Drechsler: Towards Dependability-aware Design of Hardware Systems using extended Program State Machines, Proceedings of 2nd IEEE Workshop on Self-Organizing Real-Time Systems (SORT), Newport Beach, CA, USA, März 2011
96. Kay Klobedanz, Andreas König, Wolfgang Müller, Achim Rettberg: Self-Reconfiguration for Fault-Tolerant FlexRay Networks, Proceedings of 2nd IEEE Workshop on Self-Organizing Real-Time Systems (SORT), Newport Beach, CA, USA, März 2011

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