

# Flavio Rech Wagner

## List of Publications by Year in descending order

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98  
papers

831  
citations

1040056

9  
h-index

996975

15  
g-index

101  
all docs

101  
docs citations

101  
times ranked

668  
citing authors

#	ARTICLE	IF	CITATIONS
1	A study on the performance impact of programmable logic controllers based on enhanced architecture and organization. <i>Microprocessors and Microsystems</i> , 2020, 76, 103082.	2.8	2
2	Performance Comparison of Multi-Agent Middleware Platforms for Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2018, 18, 3039-3049.	4.7	18
3	Enhanced architecture for programmable logic controllers targeting performance improvements. <i>Microprocessors and Microsystems</i> , 2018, 61, 306-315.	2.8	6
4	Effectiveness of Software-Based Hardening for Radiation-Induced Soft Errors in Real-Time Operating Systems. <i>Lecture Notes in Computer Science</i> , 2017, , 3-15.	1.3	11
5	Reliability Analysis of Operating Systems and Software Stack for Embedded Systems. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 2225-2232.	2.0	24
6	Beyond Cross-Section. <i>Transactions on Embedded Computing Systems</i> , 2016, 15, 1-16.	2.9	3
7	Exploiting cache conflicts to reduce radiation sensitivity of operating systems on embedded systems. , 2015, , .		9
8	Reliability Analysis of Operating Systems for Embedded SoC. , 2015, , .		6
9	Reducing embedded software radiation-induced failures through cache memories. , 2014, , .		18
10	Coordinating Aerial Robots and Unattended Ground Sensors for Intelligent Surveillance Systems. <i>International Journal of Computers, Communications and Control</i> , 2014, 5, 52.	1.8	4
11	Exploring geographic context awareness for data dissemination on mobile ad hoc networks. <i>Ad Hoc Networks</i> , 2013, 11, 1746-1764.	5.5	15
12	Cooperation among Wirelessly Connected Static and Mobile Sensor Nodes for Surveillance Applications. <i>Sensors</i> , 2013, 13, 12903-12928.	3.8	31
13	Exploring Resource Mapping Policies for Dynamic Clustering on NoC-based MPSoCs. , 2013, , .		1
14	Automatic Translation from UML to Simulink CAAM Using Graph Grammars. , 2013, , .		2
15	From UML to SIMULINK CAAM: Formal Specification and Transformation Analysis. <i>Revista De Informatica Teorica E Aplicada</i> , 2013, 20, 102.	0.2	2
16	The impact of synchronization in message passing while scaling multi-core MPSoC systems. , 2012, , .		1
17	Evaluating Dalvik Instructions through Dynamic Analysis of Bytecodes. , 2012, , .		0
18	The impact of synchronization in message passing while scaling multi-core MPSoC systems. , 2012, , .		0

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19	A model-driven engineering framework for embedded systems design. Innovations in Systems and Software Engineering, 2012, 8, 19-33.	2.1	8
20	Analyzing different levels of geographic context awareness in agent ferrying over VANETs. , 2011, , .		4
21	T&D-Benchâ€™ Innovative Combined Support for Education and Research in Computer Architecture and Embedded Systems. IEEE Transactions on Education, 2011, 54, 675-682.	2.4	5
22	Handling Failures of Static Sensor Nodes in Wireless Sensor Network by Use of Mobile Sensors. , 2011, , .		9
23	Improving the efficiency of a hardware transactional memory on an NoC-based MPSoC. , 2011, , .		1
24	Multi-Agent Support in a Middleware for Mission-Driven Heterogeneous Sensor Networks. Computer Journal, 2011, 54, 406-420.	2.4	8
25	Dynamic clustering for distinct parallel programming models on NoC-based MPSoCs. , 2011, , .		2
26	Performance and Energy Evaluation of Memory Organizations in NoC-Based MPSoCs under Latency and Task Migration. International Federation for Information Processing, 2011, , 56-80.	0.4	0
27	Locality-Aware Extension of pi-Calculus to Model Self-Organizing Behavior in Massively Distributed Embedded Systems. , 2010, , .		0
28	Pheromone-based coordination strategy to static sensors on the ground and unmanned aerial vehicles carried sensors. , 2010, , .		0
29	Design space abstraction and metamodeling for embedded systems design space exploration. , 2010, , .		3
30	UAV relay network to support WSN connectivity. , 2010, , .		136
31	Decentralized task distribution among cooperative UAVs in surveillance systems applications. , 2010, , .		12
32	Experimental Analysis of a Wireless Sensor Network Setup Strategy Provided by an Agent-Oriented Middleware. , 2010, , .		5
33	Experimental Analysis of Coordination Strategies to Support Wireless Sensor Networks Composed by Static Ground Sensors and UAV-Carried Sensors. , 2010, , .		3
34	Enhanced Wireless Sensor Network setup strategy supported by intelligent software agents. , 2010, , .		2
35	Model Checking the Ant Colony Optimisation. International Federation for Information Processing, 2010, , 221-232.	0.4	8
36	Evaluation of a hardware transactional memory model in an NoC-based embedded MPSoC. , 2010, , .		6

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37	Geo-aware Handover of Mission Agents Using Opportunistic Communication in VANET. Lecture Notes in Computer Science, 2010, , 365-376.	1.3	0
38	Evaluation of coordination strategies for heterogeneous sensor networks aiming at surveillance applications. , 2009, , .		20
39	Recent advances in model-based methodologies for pervasive and embedded software. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2009, 34, 37-39.	0.7	0
40	Model-based Methodologies for Pervasive and Embedded Software. , 2009, , .		0
41	Using MDE for the formal verification of embedded systems modeled by UML sequence diagrams. , 2009, , .		0
42	Introduction to special issue: model-based development methodologies. Innovations in Systems and Software Engineering, 2009, 5, 1-3.	2.1	3
43	Process algebra to model self-organizing behavior in Wireless Sensor Networks. , 2009, , .		1
44	Exploiting the model-driven engineering approach to improve design space exploration of embedded systems. , 2009, , .		3
45	Adaptive reduced bit-width Instruction Set Architecture (adapt-rISA). , 2009, , .		1
46	Performance and energy evaluation of memory hierarchies in NoC-based MPSoCs under latency. , 2009, , .		8
47	MDE approach to the co-synthesis of embedded systems using a MOF-based internal design representation. , 2009, , .		0
48	An agent framework to support sensor networks' setup and adaptation. , 2009, , .		4
49	Using a Link Metric to Improve Communication Mechanisms and Real-Time Properties in an Adaptive Middleware for Heterogeneous Sensor Networks. Lecture Notes in Computer Science, 2009, , 422-431.	1.3	4
50	Formal Verification for Embedded Systems Design Based on MDE. IFIP Advances in Information and Communication Technology, 2009, , 159-170.	0.7	3
51	Applying neural networks to performance estimation of embedded software. Journal of Systems Architecture, 2008, 54, 224-240.	4.3	19
52	Software Quality Metrics and their Impact on Embedded Software. , 2008, , .		28
53	Dynamic task allocation strategies in MPSoC for soft real-time applications. , 2008, , .		30
54	Resource-Aware Clustering of Wireless Sensor Networks Based on Division of Labor in Social Insects. International Federation for Information Processing, 2008, , 45-58.	0.4	4

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55	A virtual platform for multiprocessor real-time embedded systems. , 2008, , .		7
56	An Infrastructure for Hardware-Software Co-Design of Embedded Real-Time Java Applications. , 2008, , .		8
57	On the Use of Software Quality Metrics to Improve Physical Properties of Embedded Systems. International Federation for Information Processing, 2008, , 101-110.	0.4	4
58	Model driven engineering for MPSOC design space exploration. , 2007, , .		16
59	From classroom to research. , 2007, , .		1
60	Analysis of the use of declarative languages for enhanced embedded system software development. , 2007, , .		2
61	Fitting the router characteristics in NoCs to meet QoS requirements. , 2007, , .		5
62	An approach to improve predictability in communication services in distributed real-time embedded systems. , 2007, , .		1
63	Impact of task migration in NoC-based MPSoCs for soft real-time applications. , 2007, , .		21
64	A hybrid memory organization to enhance task migration and dynamic task allocation in NoC-based MPSoCs. , 2007, , .		14
65	Hardware/software IP integration using the ROSES design environment. Transactions on Embedded Computing Systems, 2007, 6, 17.	2.9	6
66	Software Performance Estimation in MPSoC Design. , 2007, , .		18
67	ModES: Embedded Systems Design Methodology and Tools based on MDE. , 2007, , .		15
68	An Aspect-Oriented Approach for Dealing with Non-Functional Requirements in a Model-Driven Development of Distributed Embedded Real-Time Systems. , 2007, , .		49
69	Using Aspect-Oriented Concepts in the Requirements Analysis of Distributed Real-Time Embedded Systems. , 2007, , 221-230.		12
70	DERAF: A High-Level Aspects Framework for Distributed Embedded Real-Time Systems Design. Lecture Notes in Computer Science, 2007, , 55-74.	1.3	29
71	Embedded SW Design Space Exploration and Automation using UML-Based Tools. , 2007, , 437-440.		1
72	Motion Compensation Hardware Accelerator Architecture for H.264/AVC. , 2007, , 24-35.		1

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73	Design Space Exploration of Embedded Processors in Computer Architecture Education using T&D-Bench. , 2006, , .		4
74	MDA-based approach for embedded software generation from a UML/MOF repository. , 2006, , .		6
75	Hardware support in a middleware for distributed and real-time embedded applications. , 2006, , .		5
76	Evaluating Energy-Aware Task Allocation Strategies for MPSOCS. , 2006, , 215-224.		8
77	A Comparison between UML and Function Blocks for Heterogeneous SoC Design and ASIP Generation. , 2005, , 199-222.		3
78	Tangram: Virtual Integration of IP Components in a Distributed Cosimulation. IEEE Design and Test of Computers, 2005, 22, 462-471.	1.0	3
79	The Implications of Real-Time Behavior in Networks-on-Chip Architectures. International Federation for Information Processing, 2004, , 307-316.	0.4	1
80	Strategies for the integration of hardware and software IP components in embedded systems-on-chip. The Integration VLSI Journal, 2004, 37, 223-252.	2.1	21
81	Design Space Exploration with Automatic Selection of SW and HW for Embedded Applications. Lecture Notes in Computer Science, 2004, , 303-312.	1.3	0
82	T&D-Bench+ - a software environment for modeling and simulation of state-of-the-art processors. , 2003, , .		1
83	Combining architecture exploration and a path to implementation to build a complete SoC design flow from system specification to RTL. , 2003, , .		4
84	Scheduling Policy Costs on a JAVA Microcontroller. Lecture Notes in Computer Science, 2003, , 520-533.	1.3	5
85	A Standardized Co-simulation Backbone. IFIP Advances in Information and Communication Technology, 2002, , 181-192.	0.7	11
86	An Object-Oriented Methodology for Modeling the Precise Behavior of Processor Architectures. IFIP Advances in Information and Communication Technology, 2002, , 121-132.	0.7	1
87	System synthesis for multiprocessor embedded applications. , 2000, , .		11
88	A logic for synchronous transitions with dynamic conflict resolution. CLEI Electronic Journal, 2000, 3, .	0.3	0
89	A Logic to Specify and Verify Synchronous Transitions. , 1999, , .		0
90	Schema Evolution in the STAR Framework. , 1995, , 45-54.		1

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91	Configuration Management in the STAR Framework. , 1995, , 25-34.		0
92	The Visual Interface of the STAR Framework. , 1995, , 253-262.		1
93	Design version management in the GARDEN framework. , 1991, , .		9
94	T&D-Bench: an environment for modeling and simulating complex processor architectures. , 0, , .		1
95	Tangram - virtual integration of heterogeneous IP components in a distributed co-simulation environment. , 0, , .		2
96	CACO-PS: a general purpose cycle-accurate configurable power simulator. , 0, , .		12
97	Design Space Exploration using T&D-Bench. , 0, , .		2
98	Java Framework for Distributed Real-Time Embedded Systems. , 0, , .		7