

Martin E Trngren

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

1,597
citations

18
h-index

37
g-index

129
ext. papers

2,013
ext. citations

2.1
avg, IF

5.26
L-index

#	Paper	IF	Citations
107	Current status and advancement of cyber-physical systems in manufacturing. <i>Journal of Manufacturing Systems</i> , 2015 , 37, 517-527	9.1	544
106	Vehicle Applications of Controller Area Network 2005 , 741-765		68
105	Cyber-physical system design contracts 2013 ,		59
104	Fundamentals of Implementing Real-Time Control Applications in Distributed Computer Systems. <i>Real-Time Systems</i> , 1998 , 14, 219-250	1.3	56
103	Integrating viewpoints in the development of mechatronic products. <i>Mechatronics</i> , 2014 , 24, 745-762	3	50
102	A functional reference architecture for autonomous driving. <i>Information and Software Technology</i> , 2016 , 73, 136-150	3.4	47
101	A Functional Architecture for Autonomous Driving 2015 ,		43
100	Viewpoints, formalisms, languages, and tools for cyber-physical systems 2012 ,		42
99	Digitalizing Swedish industry: What is next?. <i>Computers in Industry</i> , 2019 , 105, 153-163	11.6	37
98	A characterization of integrated multi-view modeling in the context of embedded and cyber-physical systems 2013 ,		33
97	MODIFI: A MODEL-Implemented Fault Injection Tool. <i>Lecture Notes in Computer Science</i> , 2010 , 210-222	0.9	31
96	What is embedded systems and how should it be taught?---results from a didactic analysis. <i>Transactions on Embedded Computing Systems</i> , 2005 , 4, 633-651	1.8	28
95	A reference architecture for cooperative driving. <i>Journal of Systems Architecture</i> , 2013 , 59, 1095-1112	5.5	27
94	How to Deal with the Complexity of Future Cyber-Physical Systems?. <i>Designs</i> , 2018 , 2, 40	1.8	26
93	Modelling Support for Design of Safety-Critical Automotive Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2008 , 72-85	0.9	23
92	Complexity Challenges in Development of Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 478-503	0.9	20
91	. <i>IEEE Robotics and Automation Magazine</i> , 2001 , 8, 20-26	3.4	20

90	11 The EAST-ADL Architecture Description Language for Automotive Embedded Software. <i>Lecture Notes in Computer Science</i> , 2010 , 297-307	0.9	19
89	Integrating safety analysis into the model-based development toolchain of automotive embedded systems 2010 ,		18
88	Model-Implemented Fault Injection for Hardware Fault Simulation 2010 ,		15
87	Structuring Safety Requirements in ISO 26262 Using Contract Theory. <i>Lecture Notes in Computer Science</i> , 2013 , 166-177	0.9	15
86	Managing Complexity of Automotive Electronics Using the EAST-ADL 2007 ,		14
85	The AIDA toolset for design and implementation analysis of distributed real-time control systems. <i>Microprocessors and Microsystems</i> , 2004 , 28, 163-182	2.4	14
84	Strategies and considerations in shaping cyber-physical systems education. <i>ACM SIGBED Review</i> , 2017 , 14, 53-60	1.3	13
83	Semi-Automatic FMEA Supporting Complex Systems with Combinations and Sequences of Failures. <i>SAE International Journal of Passenger Cars - Mechanical Systems</i> , 2009 , 2, 791-802	0.3	13
82	Education and training challenges in the era of Cyber-Physical Systems 2015 ,		12
81	Security-aware development of cyber-physical systems illustrated with automotive case study 2016 ,		11
80	Model-Based Development of Automotive Embedded Systems. <i>Industrial Information Technology Series</i> , 2008 , 258-309		10
79	Model-Based Safety Engineering of Interdependent Functions in Automotive Vehicles Using EAST-ADL2. <i>Lecture Notes in Computer Science</i> , 2010 , 332-346	0.9	10
78	Model-Based Systems Engineering Tool-Chain for Automated Parameter Value Selection. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-15	7.3	9
77	Safe Stop Trajectory Planning for Highly Automated Vehicles: An Optimal Control Problem Formulation 2018 ,		9
76	An Investigation of Functionalities of Future Tool-chain for Aerospace Industry. <i>IncoSE International Symposium</i> , 2017 , 27, 1408-1422	0.4	8
75	Verifying system behaviors in EAST-ADL2 with the SPIN model checker 2010 ,		8
74	Integrating safety analysis into the model-based development toolchain of automotive embedded systems. <i>ACM SIGPLAN Notices</i> , 2010 , 45, 125-132	0.2	8
73	Experiences from large embedded systems development projects in education, involving industry and research. <i>ACM SIGBED Review</i> , 2007 , 4, 55-63	1.3	8

72	Towards Improving Dependability of Automotive Systems by Using the EAST-ADL Architecture Description Language. <i>Lecture Notes in Computer Science</i> , 2007 , 39-65	0.9	8
71	Adaptive Trajectory Planning and optimization at Limits of Handling 2019 ,		8
70	Design Ontology in a Case Study for Cosimulation in a Model-Based Systems Engineering Tool-Chain. <i>IEEE Systems Journal</i> , 2020 , 14, 1297-1308	4.3	8
69	Trends in preparing cyber-physical systems engineers. <i>Cyber-Physical Systems</i> , 2019 , 5, 65-91	1.1	7
68	Towards integration of CPS and systems engineering in education 2016 ,		7
67	On the modeling and generation of service-oriented tool chains. <i>Software and Systems Modeling</i> , 2014 , 13, 461-480	1.9	7
66	How should embedded systems be taught?. <i>ACM SIGBED Review</i> , 2005 , 2, 34-39	1.3	7
65	Cyber-physical systems research and education in 2030: Scenarios and strategies. <i>Journal of Industrial Information Integration</i> , 2021 , 21, 100192	7	7
64	From EAST-ADL to AUTOSAR Software Architecture: A Mapping Scheme. <i>Lecture Notes in Computer Science</i> , 2011 , 328-335	0.9	6
63	Empirical-Evolution of Frameworks Supporting Co-simulation Tool-Chain Development. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 813-828	0.4	6
62	Tool Integration beyond Wasserman. <i>Lecture Notes in Business Information Processing</i> , 2011 , 270-281	0.6	6
61	Qualifying Software Tools, a Systems Approach. <i>Lecture Notes in Computer Science</i> , 2012 , 340-351	0.9	6
60	A Case Study on Achieving Fair Data Age Distribution in Vehicular Communications 2017 ,		5
59	2016 ,		5
58	High-Level Specification and Code Generation for Service-Oriented Tool Adapters 2012 ,		5
57	A Timed Automata-Based Method to Analyze EAST-ADL Timing Constraint Specifications. <i>Lecture Notes in Computer Science</i> , 2012 , 303-318	0.9	5
56	The Role of Competence Networks in the Era of Cyber-Physical Systems [Promoting Knowledge Sharing and Knowledge Exchange. <i>IEEE Design and Test</i> , 2020 , 37, 8-15	1.4	5
55	Ontological reasoning for consistency in the design of cyber-physical systems 2016 ,		5

54	A Service-Oriented Tool-Chain for Model-Based Systems Engineering of Aero-Engines. <i>IEEE Access</i> , 2018 , 6, 50443-50458	3.5	5
53	Architecture Challenges for Intelligent Autonomous Machines. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 1669-1681	0.4	4
52	ATRIUM [Architecting under uncertainty: For ISO 26262 compliance 2017 ,		4
51	Functional Safety and Evolvable Architectures for Autonomy 2017 , 547-560		4
50	The discourse on tool integration beyond technology, a literature survey. <i>Journal of Systems and Software</i> , 2015 , 106, 117-131	3.3	4
49	Experience on applying software architecture recovery to automotive embedded systems 2014 ,		4
48	Pre-Crash Vehicle Control and Manoeuvre Planning: A Step Towards Minimizing Collision Severity for Highly Automated Vehicles 2019 ,		4
47	Architecting Safety Supervisors for High Levels of Automated Driving 2018 ,		4
46	A literature review on obsolescence management in COTS-centric cyber physical systems. <i>Procedia Computer Science</i> , 2019 , 153, 135-145	1.6	3
45	Experiences and reflections on three years of CPS summer schools within EIT digital 2016 ,		3
44	2018 ,		3
43	Towards curricula for Cyber-Physical Systems 2014 ,		3
42	2017 ,		3
41	Tool Integration, from Tool to Tool Chain with ISO 26262 2012 ,		3
40	Supporting an Automotive Safety Case through Systematic Model Based Development - the EAST-ADL2 Approach 2008 ,		3
39	Real-time control of physically distributed systems. <i>Computers and Electrical Engineering</i> , 1992 , 18, 51-72.	4.3	3
38	Autonomic Middleware for Automotive Embedded Systems 2009 , 169-210		3
37	A domain-specific modeling approach supporting tool-chain development with Bayesian network models. <i>Integrated Computer-Aided Engineering</i> , 2020 , 27, 153-171	5.2	3

36	Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. <i>IEEE Systems Journal</i> , 2020 , 14, 3256-3266	4.3	2
35	2013 ,		2
34	Analyzing semantic relationships between multiformalism models for inconsistency management 2015 ,		2
33	Self configuration of dependent tasks for dynamically reconfigurable automotive embedded systems 2008 ,		2
32	Tool supporting the co-design of control systems and their real-time implementation: Current status and future directions 2006 ,		2
31	Tuning Permissiveness of Active Safety Monitors for Autonomous Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 333-348	0.9	2
30	AD-EYE: A Co-Simulation Platform for Early Verification of Functional Safety Concepts		2
29	A Tool Integration Language to Formalize Co-simulation Tool-Chains for Cyber-Physical System (CPS). <i>Lecture Notes in Computer Science</i> , 2018 , 391-405	0.9	2
28	Generic Fault Modelling for Fault Injection. <i>Lecture Notes in Computer Science</i> , 2011 , 287-296	0.9	2
27	On Integrating EAST-ADL and UPPAAL for Embedded System Architecture Verification. <i>Embedded Systems</i> , 2014 , 85-99		2
26	A Functional Brake Architecture for Autonomous Heavy Commercial Vehicles 2016 ,		2
25	A Data-Driven Method Towards Minimizing Collision Severity for Highly Automated Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021 , 1-1	5	2
24	Experience from Introducing Systems Engineering in an Academic Environment Using an Industry Training Course. <i>IncoSE International Symposium</i> , 2018 , 28, 245-259	0.4	2
23	Towards a taxonomy of technical debt for COTS-intensive cyber physical systems. <i>Procedia Computer Science</i> , 2019 , 153, 108-117	1.6	1
22	The Need for a Confidence View of CPS Support Environments (Fast Abstract) 2015 ,		1
21	A Cost-Efficiency Model for Tool Chains 2012 ,		1
20	An Executable Design Decision Representation Using Model Transformations 2010 ,		1
19	Lessons Learned from Model Based Development of a Distributed Embedded Automotive Control System 2004 ,		1

18	7.1.1 Integrating Views in a Multi-view Modelling Environment. <i>In cose International Symposium, 2005</i> , 15, 974-988	0.4	1
17	Connected things connecting Europe. <i>Communications of the ACM, 2019</i> , 62, 46-46	2.5	1
16	Uncertainty Management in Situation Awareness for Cyber-Physical Systems 2020 ,		1
15	Intelligent Transport Systems - The Role of a Safety Loop for Holistic Safety Management. <i>Lecture Notes in Computer Science, 2014</i> , 3-10	0.9	1
14	17 Towards Model-Based Engineering of Self-configuring Embedded Systems. <i>Lecture Notes in Computer Science, 2010</i> , 345-353	0.9	1
13	Educating embedded systems hackers. <i>ACM SIGBED Review, 2017</i> , 14, 8-15	1.3	0
12	Introducing distributed control in mobile machines based on hydraulic actuators. <i>Mechatronics, 1994</i> , 4, 139-157	3	0
11	Traction Adaptive Motion Planning and Control at the Limits of Handling. <i>IEEE Transactions on Control Systems Technology, 2021</i> , 1-17	4.8	0
10	Security Awareness in the Internet of Everything. <i>Advances in Computer and Electrical Engineering Book Series, 2019</i> , 272-301	0.3	0
9	Systems Engineering and Architecting for Intelligent Autonomous Systems 2017 , 313-351		
8	Requirements Engineering for Control and Computing Systems at large research facilities: Process implementation and a case study. <i>In cose International Symposium, 2015</i> , 25, 68-82	0.4	
7	THE EFFECT OF RANDOMLY TIME-VARYING SAMPLING AND COMPUTATIONAL DELAY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005</i> , 38, 209-218		
6	Competence Networks in the Era of CPS Lessons Learnt in the ICES Cross-Disciplinary and Multi-domain Center. <i>Lecture Notes in Computer Science, 2020</i> , 264-283	0.9	
5	Security Awareness in the Internet of Everything 2022 , 1-30		
4	Architecture and Safety for Autonomous Heavy Vehicles: ARCHER 2017 , 571-581		
3	Component-Based Development 2013 , 179-212		
2	Architecture Exploration 2013 , 145-178		
1	A Permissioned Blockchain Based Feature Management System for Assembly Devices. <i>IEEE Access, 2020</i> , 8, 183378-183390	3.5	

