

Martin E Trngren

List of Publications by Year in Descending Order

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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	Security Awareness in the Internet of Everything 2022 , 1-30		
106	Traction Adaptive Motion Planning and Control at the Limits of Handling. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-17	4.8	0
105	Cyber-physical systems research and education in 2030: Scenarios and strategies. <i>Journal of Industrial Information Integration</i> , 2021 , 21, 100192	7	7
104	A Data-Driven Method Towards Minimizing Collision Severity for Highly Automated Vehicles. <i>IEEE Transactions on Intelligent Vehicles</i> , 2021 , 1-1	5	2
103	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
102	Probabilistic Inference of Fault Condition of Cyber-Physical Systems Under Uncertainty. <i>IEEE Systems Journal</i> , 2020 , 14, 3256-3266	4.3	2
101	Competence Networks in the Era of CPS [Lessons Learnt in the ICES Cross-Disciplinary and Multi-domain Center. <i>Lecture Notes in Computer Science</i> , 2020 , 264-283	0.9	
100	Uncertainty Management in Situation Awareness for Cyber-Physical Systems 2020 ,		1
99	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
98	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
97	A Permissioned Blockchain Based Feature Management System for Assembly Devices. <i>IEEE Access</i> , 2020 , 8, 183378-183390	3.5	
96	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
95	Towards a taxonomy of technical debt for COTS-intensive cyber physical systems. <i>Procedia Computer Science</i> , 2019 , 153, 108-117	1.6	1
94	A literature review on obsolescence management in COTS-centric cyber physical systems. <i>Procedia Computer Science</i> , 2019 , 153, 135-145	1.6	3
93	Trends in preparing cyber-physical systems engineers. <i>Cyber-Physical Systems</i> , 2019 , 5, 65-91	1.1	7
92	Security Awareness in the Internet of Everything. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2019 , 272-301	0.3	0
91	Connected things connecting Europe. <i>Communications of the ACM</i> , 2019 , 62, 46-46	2.5	1

90	Adaptive Trajectory Planning and optimization at Limits of Handling 2019 ,			8
89	Pre-Crash Vehicle Control and Manoeuvre Planning: A Step Towards Minimizing Collision Severity for Highly Automated Vehicles 2019 ,			4
88	Digitalizing Swedish industry: What is next?. <i>Computers in Industry</i> , 2019 , 105, 153-163	11.6		37
87	Complexity Challenges in Development of Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 478-503	0.9		20
86	2018 ,			3
85	Tuning Permissiveness of Active Safety Monitors for Autonomous Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 333-348	0.9		2
84	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
83	Empirical-Evolution of Frameworks Supporting Co-simulation Tool-Chain Development. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 813-828	0.4		6
82	How to Deal with the Complexity of Future Cyber-Physical Systems?. <i>Designs</i> , 2018 , 2, 40	1.8		26
81	A Service-Oriented Tool-Chain for Model-Based Systems Engineering of Aero-Engines. <i>IEEE Access</i> , 2018 , 6, 50443-50458	3.5		5
80	Architecting Safety Supervisors for High Levels of Automated Driving 2018 ,			4
79	Safe Stop Trajectory Planning for Highly Automated Vehicles: An Optimal Control Problem Formulation 2018 ,			9
78	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
77	Strategies and considerations in shaping cyber-physical systems education. <i>ACM SIGBED Review</i> , 2017 , 14, 53-60	1.3		13
76	Educating embedded systems hackers. <i>ACM SIGBED Review</i> , 2017 , 14, 8-15	1.3		0
75	A Case Study on Achieving Fair Data Age Distribution in Vehicular Communications 2017 ,			5
74	An Investigation of Functionalities of Future Tool-chain for Aerospace Industry. <i>IncoSE International Symposium</i> , 2017 , 27, 1408-1422	0.4		8
73	2017 ,			3

72	ATRIUM Architecting under uncertainty: For ISO 26262 compliance 2017 ,		4
71	Functional Safety and Evolvable Architectures for Autonomy 2017 , 547-560		4
70	Systems Engineering and Architecting for Intelligent Autonomous Systems 2017 , 313-351		
69	Architecture and Safety for Autonomous Heavy Vehicles: ARCHER 2017 , 571-581		
68	Experiences and reflections on three years of CPS summer schools within EIT digital 2016 ,		3
67	Towards integration of CPS and systems engineering in education 2016 ,		7
66	2016 ,		5
65	A functional reference architecture for autonomous driving. <i>Information and Software Technology</i> , 2016 , 73, 136-150	3-4	47
64	Architecture Challenges for Intelligent Autonomous Machines. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 1669-1681	0-4	4
63	Security-aware development of cyber-physical systems illustrated with automotive case study 2016 ,		11
62	A Functional Brake Architecture for Autonomous Heavy Commercial Vehicles 2016 ,		2
61	Ontological reasoning for consistency in the design of cyber-physical systems 2016 ,		5
60	A Functional Architecture for Autonomous Driving 2015 ,		43
59	Education and training challenges in the era of Cyber-Physical Systems 2015 ,		12
58	Requirements Engineering for Control and Computing Systems at large research facilities: Process implementation and a case study. <i>IncoSE International Symposium</i> , 2015 , 25, 68-82	0-4	
57	Current status and advancement of cyber-physical systems in manufacturing. <i>Journal of Manufacturing Systems</i> , 2015 , 37, 517-527	9-1	544
56	The Need for a Confidence View of CPS Support Environments (Fast Abstract) 2015 ,		1
55	The discourse on tool integration beyond technology, a literature survey. <i>Journal of Systems and Software</i> , 2015 , 106, 117-131	3-3	4

54	Analyzing semantic relationships between multiformalism models for inconsistency management 2015,		2
53	On the modeling and generation of service-oriented tool chains. <i>Software and Systems Modeling</i> , 2014 , 13, 461-480	1.9	7
52	Towards curricula for Cyber-Physical Systems 2014,		3
51	Experience on applying software architecture recovery to automotive embedded systems 2014,		4
50	Integrating viewpoints in the development of mechatronic products. <i>Mechatronics</i> , 2014 , 24, 745-762	3	50
49	Intelligent Transport Systems - The Role of a Safety Loop for Holistic Safety Management. <i>Lecture Notes in Computer Science</i> , 2014 , 3-10	0.9	1
48	On Integrating EAST-ADL and UPPAAL for Embedded System Architecture Verification. <i>Embedded Systems</i> , 2014 , 85-99		2
47	A reference architecture for cooperative driving. <i>Journal of Systems Architecture</i> , 2013 , 59, 1095-1112	5.5	27
46	2013,		2
45	A characterization of integrated multi-view modeling in the context of embedded and cyber-physical systems 2013,		33
44	Cyber-physical system design contracts 2013,		59
43	Structuring Safety Requirements in ISO 26262 Using Contract Theory. <i>Lecture Notes in Computer Science</i> , 2013 , 166-177	0.9	15
42	Component-Based Development 2013 , 179-212		
41	Architecture Exploration 2013 , 145-178		
40	High-Level Specification and Code Generation for Service-Oriented Tool Adapters 2012,		5
39	A Cost-Efficiency Model for Tool Chains 2012,		1
38	Tool Integration, from Tool to Tool Chain with ISO 26262 2012,		3
37	Viewpoints, formalisms, languages, and tools for cyber-physical systems 2012,		42

36	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
35	Qualifying Software Tools, a Systems Approach. <i>Lecture Notes in Computer Science</i> , 2012 , 340-351	0.9	6
34	From EAST-ADL to AUTOSAR Software Architecture: A Mapping Scheme. <i>Lecture Notes in Computer Science</i> , 2011 , 328-335	0.9	6
33	Tool Integration beyond Wasserman. <i>Lecture Notes in Business Information Processing</i> , 2011 , 270-281	0.6	6
32	Generic Fault Modelling for Fault Injection. <i>Lecture Notes in Computer Science</i> , 2011 , 287-296	0.9	2
31	Verifying system behaviors in EAST-ADL2 with the SPIN model checker 2010 ,		8
30	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
29	Integrating safety analysis into the model-based development toolchain of automotive embedded systems 2010 ,		18
28	MODIFI: A MODEL-Implemented Fault Injection Tool. <i>Lecture Notes in Computer Science</i> , 2010 , 210-222	0.9	31
27	Model-Implemented Fault Injection for Hardware Fault Simulation 2010 ,		15
26	An Executable Design Decision Representation Using Model Transformations 2010 ,		1
25	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
24	11 The EAST-ADL Architecture Description Language for Automotive Embedded Software. <i>Lecture Notes in Computer Science</i> , 2010 , 297-307	0.9	19
23	17 Towards Model-Based Engineering of Self-configuring Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 345-353	0.9	1
22	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
21	Autonomic Middleware for Automotive Embedded Systems 2009 , 169-210		3
20	Self configuration of dependent tasks for dynamically reconfigurable automotive embedded systems 2008 ,		2
19	Supporting an Automotive Safety Case through Systematic Model Based Development - the EAST-ADL2 Approach 2008 ,		3

18	Model-Based Development of Automotive Embedded Systems. <i>Industrial Information Technology Series</i> , 2008 , 258-309		10
17	Modelling Support for Design of Safety-Critical Automotive Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2008 , 72-85	0.9	23
16	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
15	Managing Complexity of Automotive Electronics Using the EAST-ADL 2007 ,		14
14	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
13	Tool supporting the co-design of control systems and their real-time implementation: Current status and future directions 2006 ,		2
12	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
11	THE EFFECT OF RANDOMLY TIME-VARYING SAMPLING AND COMPUTATIONAL DELAY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 209-218		
10	7.1.1 Integrating Views in a Multi-view Modelling Environment. <i>Incosc International Symposium</i> , 2005 , 15, 974-988	0.4	1
9	How should embedded systems be taught?. <i>ACM SIGBED Review</i> , 2005 , 2, 34-39	1.3	7
8	Vehicle Applications of Controller Area Network 2005 , 741-765		68
7	Lessons Learned from Model Based Development of a Distributed Embedded Automotive Control System 2004 ,		1
6	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
5	. <i>IEEE Robotics and Automation Magazine</i> , 2001 , 8, 20-26	3.4	20
4	Fundamentals of Implementing Real-Time Control Applications in Distributed Computer Systems. <i>Real-Time Systems</i> , 1998 , 14, 219-250	1.3	56
3	Introducing distributed control in mobile machines based on hydraulic actuators. <i>Mechatronics</i> , 1994 , 4, 139-157	3	0
2	Real-time control of physically distributed systems. <i>Computers and Electrical Engineering</i> , 1992 , 18, 51-72.	4.3	3
1	AD-EYE: A Co-Simulation Platform for Early Verification of Functional Safety Concepts		2

