

John S Fitzgerald

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.

63

papers

1,090

citations

13

h-index

32

g-index

65

ext. papers

1,279

ext. citations

1.7

avg, IF

4.3

L-index

#	Paper	IF	Citations
63	Modelling the impacts of crowds on occupants in the built environment—A static, rule-based approach to human perception and movement. <i>Advanced Engineering Informatics</i> , 2022 , 51, 101452	7.4	1
62	HUBCAP: A Novel Collaborative Approach to Model-Based Design of Cyber-Physical Systems. <i>Lecture Notes in Networks and Systems</i> , 2022 , 90-110	0.5	
61	Six Software Engineering Principles for Smarter Cyber-Physical Systems 2021 ,		1
60	A Cloud-based Collaboration Platform for Model-based Design of Cyber-Physical Systems 2020 ,		7
59	Collaborative Modelling and Co-simulation in Engineering and Computing Curricula. <i>Lecture Notes in Computer Science</i> , 2020 , 196-213	0.9	2
58	Editorial to the theme section on model-based engineering of smart systems. <i>Software and Systems Modeling</i> , 2020 , 19, 579-580	1.9	
57	Multi-modelling and Co-simulation in the Engineering of Cyber-Physical Systems: Towards the Digital Twin. <i>Lecture Notes in Computer Science</i> , 2019 , 40-55	0.9	15
56	Collaborative modelling and co-simulation for Transportation Cyber-Physical Systems 2018 , 51-79		2
55	Engineering Cyber-Physical Swarms with Collaborative Modelling. <i>IncoSE International Symposium</i> , 2018 , 28, 1052-1066	0.4	2
54	Towards Resilience-Explicit Modelling and Co-simulation of Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 361-376	0.9	1
53	Cyber-Physical Systems Engineering: An Introduction. <i>Lecture Notes in Computer Science</i> , 2018 , 407-410	0.9	1
52	Features of Integrated Model-Based Co-modelling and Co-simulation Technology. <i>Lecture Notes in Computer Science</i> , 2018 , 377-390	0.9	12
51	A Non-unified View of Modelling, Specification and Programming. <i>Lecture Notes in Computer Science</i> , 2018 , 52-68	0.9	1
50	Exploring the Cyber-Physical Design Space. <i>IncoSE International Symposium</i> , 2017 , 27, 371-385	0.4	3
49	Collaborative Model-based Systems Engineering for Cyber-Physical Systems, with a Building Automation Case Study. <i>IncoSE International Symposium</i> , 2016 , 26, 817-832	0.4	17
48	Integrated tool chain for model-based design of Cyber-Physical Systems: The INTO-CPS project 2016 ,		54
47	The evolution of VDM tools from the 1990s to 2015 and the influence of CAMILA. <i>Journal of Logical and Algebraic Methods in Programming</i> , 2016 , 85, 985-998	1	1

46	Towards Semantically Integrated Models and Tools for Cyber-Physical Systems Design. <i>Lecture Notes in Computer Science</i> , 2016 , 171-186	0.9	15
45	Applying Model-based SE Techniques for Dependable Land Systems. <i>In cose International Symposium</i> , 2016 , 26, 1783-1798	0.4	
44	Systems of Systems Engineering. <i>ACM Computing Surveys</i> , 2015 , 48, 1-41	13.4	177
43	Insider Threats 2015 ,		7
42	Cyber-Physical Systems Design: Formal Foundations, Methods and Integrated Tool Chains 2015 ,		28
41	Model-based Engineering of Emergence in a Collaborative SoS: Exploiting SysML & Formalism. <i>In cose International Symposium</i> , 2015 , 25, 404-419	0.4	4
40	Integrating an Upgraded Constituent System in a System of Systems: A SysML Case Study. <i>In cose International Symposium</i> , 2015 , 25, 1193-1208	0.4	2
39	Architectural Modelling Patterns for Systems of Systems. <i>In cose International Symposium</i> , 2015 , 25, 1177-1192	0.4	9
38	Co-modelling and co-simulation in the engineering of systems of cyber-physical systems 2014 ,		7
37	2.2.2 Maintaining Emergence in Systems of Systems Integration: a Contractual Approach using SysML. <i>In cose International Symposium</i> , 2014 , 24, 166-181	0.4	8
36	SysML contracts for systems of systems 2014 ,		16
35	Co-modelling of Faults and Fault Tolerance Mechanisms 2014 , 185-197		
34	From Embedded to Cyber-Physical Systems: Challenges and Future Directions 2014 , 293-303		8
33	An approach for managing semantic heterogeneity in Systems of Systems Engineering 2014 ,		3
32	Foundations for Model-Based Engineering of Systems of Systems 2014 , 1-19		12
31	Co-modelling and Co-simulation in Embedded Systems Design 2014 , 15-25		3
30	Collaborative Development of Dependable Cyber-Physical Systems by Co-Modeling and Co-Simulation. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2014 , 1-28	0.4	1
29	Discrete-Event Modelling in VDM 2014 , 61-95		

28	Contracts in CML. <i>Lecture Notes in Computer Science</i> , 2014 , 54-73	0.9	1
27	Collaborative Systems of Systems Need Collaborative Design. <i>Lecture Notes in Computer Science</i> , 2014 , 16-23	0.9	1
26	Co-model Structuring and Design Patterns 2014 , 115-137		0
25	Fault modelling for systems of systems 2013 ,		9
24	Industrial Deployment of Formal Methods: Trends and Challenges 2013 , 123-143		5
23	Interface specification for system-of-systems architectures 2012 ,		6
22	A rigorous approach to the design of resilient cyber-physical systems through co-simulation 2012 ,		3
21	A Formal Model-Based Approach to Engineering Systems-of-Systems. <i>International Federation for Information Processing</i> , 2012 , 53-62		10
20	Refinement-Based Techniques in the Analysis of Information Flow Policies for Dynamic Virtual Organisations. <i>International Federation for Information Processing</i> , 2011 , 314-321		6
19	The overture initiative integrating tools for VDM. <i>Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM</i> , 2010 , 35, 1-6	0.4	82
18	MetaSelf 2010 ,		10
17	Collaborative Modelling and Co-simulation in the Development of Dependable Embedded Systems. <i>Lecture Notes in Computer Science</i> , 2010 , 12-26	0.9	13
16	Practice-oriented courses in formal methods using VDM++. <i>Formal Aspects of Computing</i> , 2009 , 21, 245-257		8
15	Formal methods. <i>ACM Computing Surveys</i> , 2009 , 41, 1-36	13.4	340
14	2009 ,		4
13	Modelling Systems: Practical Tools and Techniques in Software Development 2009 ,		54
12	Development of a formalism for modelling and analysis of dynamic reconfiguration of dependable real-time systems 2008 ,		2
11	The connection between two ways of reasoning about partial functions. <i>Information Processing Letters</i> , 2008 , 107, 128-132	0.8	3

10	Incremental Development of a Distributed Real-Time Model of a Cardiac Pacing System Using VDM 2008 , 181-197		25
9	A metadata-based architectural model for dynamically resilient systems 2007 ,		14
8	Balancing Insight and Effort: The Industrial Uptake of Formal Methods 2007 , 237-254		5
7	Validation Support for Distributed Real-Time Embedded Systems in VDM++ 2007 ,		7
6	Triumphs and Challenges for Model-Oriented Formal Methods: The VDM++ Experience (Abstract) 2006 ,		6
5	Formal Modelling of Dynamic Coalitions, with an Application in Chemical Engineering 2006 ,		4
4	The industrialization of formal methods. <i>International Journal on Software Tools for Technology Transfer</i> , 2006 , 8, 301-302	1.3	1
3	Proof in VDM: A Practitioner's Guide 1994 ,		49
2	Modelling System of Systems Interface Contract Behaviour. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,245, 1-15		1
1	Common Representation of Information Flows for Dynamic Coalitions. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,16, 15-25		