

John S Fitzgerald

List of Publications by Citations

Source: <https://exaly.com/author-pdf/976810/john-s-fitzgerald-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Formal methods. <i>ACM Computing Surveys</i> , 2009 , 41, 1-36	13.4	340
62	Systems of Systems Engineering. <i>ACM Computing Surveys</i> , 2015 , 48, 1-41	13.4	177
61	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
60	Integrated tool chain for model-based design of Cyber-Physical Systems: The INTO-CPS project 2016 ,		54
59	Modelling Systems: Practical Tools and Techniques in Software Development 2009 ,		54
58	Proof in VDM: A Practitioner's Guide 1994 ,		49
57	Cyber-Physical Systems Design: Formal Foundations, Methods and Integrated Tool Chains 2015 ,		28
56	Incremental Development of a Distributed Real-Time Model of a Cardiac Pacing System Using VDM 2008 , 181-197		25
55	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
54	SysML contracts for systems of systems 2014 ,		16
53	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
52	Towards Semantically Integrated Models and Tools for Cyber-Physical Systems Design. <i>Lecture Notes in Computer Science</i> , 2016 , 171-186	0.9	15
51	A metadata-based architectural model for dynamically resilient systems 2007 ,		14
50	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
49	Foundations for Model-Based Engineering of Systems of Systems 2014 , 1-19		12
48	Features of Integrated Model-Based Co-modelling and Co-simulation Technology. <i>Lecture Notes in Computer Science</i> , 2018 , 377-390	0.9	12
47	MetaSelf 2010 ,		10

46	A Formal Model-Based Approach to Engineering Systems-of-Systems. <i>International Federation for Information Processing</i> , 2012 , 53-62	10
45	Fault modelling for systems of systems 2013 ,	9
44	Architectural Modelling Patterns for Systems of Systems. <i>IncoSe International Symposium</i> , 2015 , 25, 1177-1192	9
43	2.2.2 Maintaining Emergence in Systems of Systems Integration: a Contractual Approach using SysML. <i>IncoSe International Symposium</i> , 2014 , 24, 166-181	0.4 8
42	From Embedded to Cyber-Physical Systems: Challenges and Future Directions 2014 , 293-303	8
41	Practice-oriented courses in formal methods using VDM++. <i>Formal Aspects of Computing</i> , 2009 , 21, 245-257	8
40	Insider Threats 2015 ,	7
39	Co-modelling and co-simulation in the engineering of systems of cyber-physical systems 2014 ,	7
38	Validation Support for Distributed Real-Time Embedded Systems in VDM++ 2007 ,	7
37	A Cloud-based Collaboration Platform for Model-based Design of Cyber-Physical Systems 2020 ,	7
36	Interface specification for system-of-systems architectures 2012 ,	6
35	Triumphs and Challenges for Model-Oriented Formal Methods: The VDM++ Experience (Abstract) 2006 ,	6
34	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
33	Balancing Insight and Effort: The Industrial Uptake of Formal Methods 2007 , 237-254	5
32	Industrial Deployment of Formal Methods: Trends and Challenges 2013 , 123-143	5
31	Model-based Engineering of Emergence in a Collaborative SoS: Exploiting SysML & Formalism. <i>IncoSe International Symposium</i> , 2015 , 25, 404-419	0.4 4
30	2009 ,	4
29	Formal Modelling of Dynamic Coalitions, with an Application in Chemical Engineering 2006 ,	4

28	Exploring the Cyber-Physical Design Space. <i>IncoSE International Symposium</i> , 2017 , 27, 371-385	0.4	3
27	An approach for managing semantic heterogeneity in Systems of Systems Engineering 2014 ,		3
26	A rigorous approach to the design of resilient cyber-physical systems through co-simulation 2012 ,		3
25	The connection between two ways of reasoning about partial functions. <i>Information Processing Letters</i> , 2008 , 107, 128-132	0.8	3
24	Co-modelling and Co-simulation in Embedded Systems Design 2014 , 15-25		3
23	Collaborative modelling and co-simulation for Transportation Cyber-Physical Systems 2018 , 51-79		2
22	Engineering Cyber-Physical Swarms with Collaborative Modelling. <i>IncoSE International Symposium</i> , 2018 , 28, 1052-1066	0.4	2
21	Integrating an Upgraded Constituent System in a System of Systems: A SysML Case Study. <i>IncoSE International Symposium</i> , 2015 , 25, 1193-1208	0.4	2
20	Development of a formalism for modelling and analysis of dynamic reconfiguration of dependable real-time systems 2008 ,		2
19	Collaborative Modelling and Co-simulation in Engineering and Computing Curricula. <i>Lecture Notes in Computer Science</i> , 2020 , 196-213	0.9	2
18	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
17	The industrialization of formal methods. <i>International Journal on Software Tools for Technology Transfer</i> , 2006 , 8, 301-302	1.3	1
16	Six Software Engineering Principles for Smarter Cyber-Physical Systems 2021 ,		1
15	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
14	Towards Resilience-Explicit Modelling and Co-simulation of Cyber-Physical Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 361-376	0.9	1
13	Cyber-Physical Systems Engineering: An Introduction. <i>Lecture Notes in Computer Science</i> , 2018 , 407-410	0.9	1
12	Modelling System of Systems Interface Contract Behaviour. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> , 245, 1-15		1
11	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

10	Contracts in CML. <i>Lecture Notes in Computer Science</i> , 2014 , 54-73	0.9	1
9	Collaborative Systems of Systems Need Collaborative Design. <i>Lecture Notes in Computer Science</i> , 2014 , 16-23	0.9	1
8	A Non-unified View of Modelling, Specification and Programming. <i>Lecture Notes in Computer Science</i> , 2018 , 52-68	0.9	1
7	Co-model Structuring and Design Patterns 2014 , 115-137		0
6	Co-modelling of Faults and Fault Tolerance Mechanisms 2014 , 185-197		
5	Common Representation of Information Flows for Dynamic Coalitions. <i>Electronic Proceedings in Theoretical Computer Science</i> , <i>EPTCS</i> ,16, 15-25		
4	Discrete-Event Modelling in VDM 2014 , 61-95		
3	Applying Model-based SE Techniques for Dependable Land Systems. <i>In cose International Symposium</i> , 2016 , 26, 1783-1798	0.4	
2	Editorial to the theme section on model-based engineering of smart systems. <i>Software and Systems Modeling</i> , 2020 , 19, 579-580	1.9	
1	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	