Simon J E Taylor

List of Publications by Year
in descending order

122 papers	1,407 citations	430874 18 h-index	454955 30 g-index
129 all docs	129 docs citations	129 times ranked	1119 citing authors

#	Article	IF	Citations
1	Strengthening the reporting of empirical simulation studies: Introducing the STRESS guidelines. Journal of Simulation, 2019, 13, 55-67.	1.5	112
2	Simulation model reuse: definitions, benefits and obstacles. Simulation Modelling Practice and Theory, 2004, 12, 479-494.	3.8	106
3	Profiling Literature in Healthcare Simulation. Simulation, 2010, 86, 543-558.	1.8	84
4	Facilitating the Analysis of a UK National Blood Service Supply Chain Using Distributed Simulation. Simulation, 2009, 85, 113-128.	1.8	63
5	Simulation modelling is 50! Do we need a reality check?. Journal of the Operational Research Society, 2009, 60, S69-S82.	3.4	49
6	Grand challenges for modeling and simulation: simulation everywhere—from cyberinfrastructure to clouds to citizens. Simulation, 2015, 91, 648-665.	1.8	46
7	So where to next? A survey of the future for discrete-event simulation. Journal of Simulation, 2006, 1, 1-6.	1.5	40
8	Distributed simulation: state-of-the-art and potential for operational research. European Journal of Operational Research, 2019, 273, 1-19.	5.7	38
9	Causal study of low stakeholder engagement in healthcare simulation projects. Journal of the Operational Research Society, 2015, 66, 369-379.	3.4	37
10	The CloudSME simulation platform and its applications: A generic multi-cloud platform for developing and executing commercial cloud-based simulations. Future Generation Computer Systems, 2018, 88, 524-539.	7.5	35
11	Research and commercial opportunities in Web-Based Simulation. Simulation Modelling Practice and Theory, 2001, 9, 55-72.	0.3	33
12	GRIDS-SCF: An Infrastructure for Distributed Supply Chain Simulation. Simulation, 2002, 78, 312-320.	1.8	32
13	Key performance indicators for successful simulation projects. Journal of the Operational Research Society, 2017, 68, 747-765.	3.4	30
14	FACS: A geospatial agent-based simulator for analysing COVID-19 spread and public health measures on local regions. Journal of Simulation, 2022, 16, 355-373.	1.5	30
15	A distributed simulation methodological framework for OR/MS applications. Simulation Modelling Practice and Theory, 2017, 70, 101-119.	3.8	26
16	Comparing conventional and distributed approaches to simulation in a complex supply-chain health system. Journal of the Operational Research Society, 2009, 60, 43-51.	3.4	23
17	Distributed hybrid agent-based discrete event emergency medical services simulation. , 2013, , .		22
18	Somatic Maintenance Resources in the Honeybee Worker Fat Body Are Distributed to Withstand the Most Life-Threatening Challenges at Each Life Stage. PLoS ONE, 2013, 8, e69870.	2.5	22

#	ARTICLE	IF	CITATIONS
19	Enabling Cloud-Based Computational Fluid Dynamics With a Platform-as-a-Service Solution. IEEE Transactions on Industrial Informatics, 2019, 15, 85-94.	11.3	20
20	Speeding up simulation applications using WinGrid. Concurrency Computation Practice and Experience, 2009, 21, 1504-1523.	2.2	19
21	Modeling and simulation grand challenges: An OR/MS perspective. , 2013, , .		19
22	Binary Histogrammed Intensity Patches for Efficient and Robust Matching. International Journal of Computer Vision, 2011, 94, 241-265.	15.6	16
23	Exploring the E-science Knowledge Base through Co-citation Analysis. Procedia Computer Science, 2013, 19, 586-593.	2.0	16
24	A hybrid agent-based and Discrete Event Simulation approach for sustainable strategic planning and simulation analytics. , 2014, , .		16
25	Computer simulation in healthcare decision making. Computers and Industrial Engineering, 1999, 37, 235-238.	6.3	15
26	Semantic Web Service Architecture for Simulation Model Reuse. , 2007, , .		15
27	A cloud-agnostic queuing system to support the implementation of deadline-based application execution policies. Future Generation Computer Systems, 2019, 101, 99-111.	7.5	15
28	Developing interest management techniques in distributed interactive simulation using Java. , 1999, , .		13
29	Commercial-Off-The-Shelf Simulation Package interoperability: Issues and futures. , 2009, , .		13
30	Distributed computing and modeling &amp; simulation: Speeding up simulations and creating large models. , 2011, , .		13
31	Panel: distributed simulation in industry - a real-world necessity or ivory tower fancy?. , 2007, , .		12
32	Developing a Distributed Agent-Based and DES Simulation Using poRTIco and Repast. , 2013, , .		12
33	Comparative (Computational) Analysis of the DNA Methylation Status of Trinucleotide Repeat Expansion Diseases. Journal of Nucleic Acids, 2013, 2013, 1-9.	1.2	12
34	Causal factors of low stakeholder engagement: a survey of expert opinions in the context of healthcare simulation projects. Simulation, 2015, 91, 511-526.	1.8	12
35	An introduction to developing federations with the High Level Architecture (HLA). , 2017, , .		12
36	Grid-enabling FIRST: Speeding Up Simulation Applications Using WinGrid. , 2006, , .		11

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37	Ontology Engineering for Simulation Component Reuse. International Journal of Enterprise Information Systems, 2008, 4, 47-61.	1.0	11
38	Open science: Approaches and benefits for modeling & simulation. , 2017, , .		11
39	A Comparison of CMB- and HLA-Based Approaches to Type I Interoperability Reference Model Problems for COTS-Based Distributed Simulation. Simulation, 2005, 81, 33-43.	1.8	10
40	Panel on grand challenges for modeling and simulation. , 2012, , .		10
41	Motivations and barriers in using distributed supply chain simulation. International Transactions in Operational Research, 2012, 19, 733-751.	2.7	10
42	Simulation in Health Care Management: Modelling an Outpatient Clinic. OR Insight, 1998, 11, 7-11.	0.1	9
43	Grand challenges in modeling and simulation. , 2013, , .		9
44	A Prototype HLA Development Kit. , 2015, , .		9
45	Profiling e-health projects in Africa: trends and funding patterns. Information Development, 2015, 31, 199-218.	2.3	9
46	Virtual reality and simulation. , 1996, , .		8
47	Location Based Mobile Computingâ€"A Tuplespace Perspective. Mobile Information Systems, 2006, 2, 135-149.	0.6	8
48	Simulation Exploration Experience: A Distributed Hybrid Simulation of a Lunar Mining Operation. , 2014, , .		8
49	A tutorial on Cloud computing for Agent-based Modeling &amp; Simulation with Repast. , 2014, , .		8
50	Panel: The future of research in modeling & simulation. , 2014, , .		8
51	Guidelines for commercial off-the-shelf Simulation Package interoperability. , 2008, , .		7
52	CRISIS, WHAT CRISIS â€" DOES REPRODUCIBILITY IN MODELING & SIMULATION REALLY MATTER?. , 2018, , .		7
53	Use of simulation to test client-server models. , 1996, , .		6
54	Distributed Simulation with COTS Simulation Packages: A Case Study in Health Care Supply Chain Simulation. , 2006, , .		6

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55	Developing Interoperability Standards for Distributed Simulaton and Cots Simulation Packages with the CSPI PDG. , 2006, , .		6
56	The siso CSPI PDG standard for commercial off-the-shelf simulation package interoperability reference models. , 2007, , .		6
57	Easing the Development of HLA Federates: The HLA Development Kit and Its Exploitation in the SEE Project. , 2015, , .		6
58	Using Simulation and Digital Twins to Innovate: Are we Getting Smarter?. , 2021, , .		6
59	Improving simulation through advanced computing techniques: Grid computing and simulation interoperability. , 2010, , .		5
60	Introducing agent-based modeling and simulation. , 2014, , 1-10.		5
61	Distributed Approaches to Supply Chain Simulation. ACM Transactions on Modeling and Computer Simulation, 2021, 31, 1-31.	0.8	5
62	Integrating BOINC with Microsoft Excel: A Case Study. Information Technology Interfaces (ITI), Proceedings of the International Conference on, 2007, , .	0.0	4
63	Sakergrid: Simulation experimentation using grid enabled simulation software. , 2011, , .		4
64	Security Server-Based Architecture for Mobile Ad Hoc Networks. , 2012, , .		4
65	Modeling for everyone: Emphasizing the role of modeling in stem education. , 2014, , .		4
66	A review of literature in distributed supply chain simulation. , 2014, , .		4
67	A study on the state-of-the-art of e-Infrastructures uptake in Africa. Palgrave Communications, 2015, 1, .	4.7	4
68	Investigating a Science Gateway for an Agent-Based Simulation Application Using REPAST. , 2016, , .		4
69	Demonstrating Open Science for Modeling & Simulation Research. , 2016, , .		4
70	Computational challenges in modeling & simulation of complex systems. , 2017, , .		4
71	A Demand-Response Scheme Using Multi-Agent System for Smart DC Microgrid. International Journal of Embedded and Real-Time Communication Systems, 2019, 10, 48-68.	0.5	4
72	Co‑citation analysis of literature in e‑science and e‑infrastructures. Concurrency Computation Practice and Experience, 2020, 32, e5620.	2.2	4

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73	An Investigation into the Use of Net-Conferencing Groupware in Simulation Modelling. Journal of Computing and Information Technology, 2005, 13, 95.	0.3	4
74	Simulation software: evolution or revolution?. Journal of Simulation, 2009, 3, 1-2.	1.5	3
75	Economics of modeling and simulation: Reflections and implications for healthcare. , 2010, , .		3
76	Challenges for web simulation science. , 2011, , .		3
77	Speeding up systems biology simulations of biochemical pathways using condor. Concurrency Computation Practice and Experience, 2014, 26, 2727-2742.	2.2	3
78	APPLYING THE STRESS GUIDELINES FOR REPRODUCIBILITY IN MODELING & SIMULATION: APPLICATION TO A DISEASE MODELING CASE STUDY. , 2018, , .		3
79	User requirements for national research and education networks for research in West and Central Africa. Information Development, 2019, 35, 575-591.	2.3	3
80	Building Global Research Capacity in Public Health: The Case of a Science Gateway for Physical Activity Lifelong Modelling and Simulation. , 2019, , .		3
81	Towards a Deadline-Based Simulation Experimentation Framework Using Micro-Services Auto-Scaling Approach. , 2019, , .		3
82	Commercial Use of WS-PGRADE/gUSE. , 2014, , 271-286.		3
83	Towards a Requirement-driven Digital Twin Architecture. Procedia CIRP, 2022, 107, 758-763.	1.9	3
84	Virtual reality: A distributed perspective. Virtual Reality, 1995, 1, 91-94.	6.1	2
85	Simulating Economic Factors in Adjuvant Breast Cancer Treatment. Journal of the Operational Research Society, 2000, 51, 465.	3.4	2
86	Distributed Tuplespace and Location Management - an Integrated Perspective using Bluetooth. , 2007, , .		2
87	Celebrating 50 years of simulation software. Journal of Simulation, 2008, 2, 127-127.	1.5	2
88	Stakeholder enfranchisement. Transforming Government: People, Process and Policy, 2008, 2, 119-127.	2.1	2
89	Service-oriented simulation using web ontology. International Journal of Simulation and Process Modelling, 2012, 7, 217.	0.2	2
90	Business models for cloud computing: experiences from developing Modeling & Simulation as a Service applications in industry. , 2015, , .		2

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91	High Speed Simulation Analytics. Springer Series in Advanced Manufacturing, 2019, , 167-189.	0.5	2
92	Reported needs of information resources, research tools, connectivity and infrastructure among African Pharmacological Scientists to improve future patient care and health. Expert Review of Clinical Pharmacology, 2019, 12, 481-489.	3.1	2
93	Towards Modelling the Effect of Evolving Violence on Forced Migration. , 2019, , .		2
94	Innovations in Simulation: Experiences With Cloud-Based Simulation Experimentation. , 2020, , .		2
95	Enhancing simulation education with intelligent tutoring systems. , 1996, , .		1
96	Supporting simulation in industry through the application of grid computing. , 2008, , .		1
97	Realising Parallel and Distributed Simulation in Industry: A Roadmap. , 2011, , .		1
98	Student modeling & simulation projects in healthcare: Experiences with Hillingdon Hospital. , 2014, , .		1
99	Investigating WS-PGRADE workflows for Cloud-based distributed simulation. , 2015, , .		1
100	Modelling investment plans at asset portfolio level using optimum plan rationalisation approaches. IFAC-PapersOnLine, 2020, 53, 143-148.	0.9	1
101	A Workflow Architecture for Cloud-based Distributed Simulation. ACM Transactions on Modeling and Computer Simulation, 2022, 32, 1-26.	0.8	1
102	STAMINA: Bioinformatics Platform for Monitoring and Mitigating Pandemic Outbreaks. Technologies, 2022, 10, 63.	5.1	1
103	Developments in parallel discrete event simulation at the centre for parallel computing. Microprocessing and Microprogramming, 1993, 37, 145-148.	0.2	0
104	Estimating the benefit of the parallelisation of discrete event simulation. , 1995, , .		0
105	Interactive strategies for developing intuitive knowledge as basis for simulation modeling education. , 1997, , .		0
106	Clinical Trials, Economic Evaluation and Simulation. OR Insight, 1998, 11, 22-28.	0.1	0
107	Progress in simulation research: an editorial introduction and overview. Journal of the Operational Research Society, 2000, 51, 383-383.	3.4	0
108	Simulation Modelling. OR Insight, 2001, 14, 2-2.	0.1	0

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109	Collaborative Simulation Modelling: Part 1. OR Insight, 2001, 14, 3-10.	0.1	0
110	Clarifying Interoperability: The SISO CSPI PDG Standard for Commercial Off-The-Shelf Simulation Package Interoperability Reference Models. , 2008, , .		0
111	The Journal of Simulation is one year old!. Journal of Simulation, 2008, 2, 1-2.	1.5	0
112	Grid services for Commercial Simulation Packages. , 2010, , .		0
113	Response to Forsberg et al (2011) Managing Health Care Decisions and Improvement Through Simulation Modeling. Quality Management in Health Care, 2011, 20, 246-247.	0.8	0
114	High-performance simulation and simulation methodologies. Simulation, 2013, 89, 1291-1292.	1.8	0
115	Application and support for high-performance simulation. Simulation, 2013, 89, 1151-1153.	1.8	0
116	Investigating the speedup of systems biology simulation using the SZTAKI Desktop Grid. , 2014, , .		0
117	CraftBrew: Experiences of developing a low-cost brewery management system with cloud-based simulation. , 2017, , .		0
118	A Demand-Response Scheme Using Multi-Agent System for Smart DC Microgrid. , 2022, , 700-720.		0
119	Leveraging Simulation Practice in Industry through use of Desktop Grid Middleware. , 2009, , 105-129.		0
120	Speeding Up Decision Support. , 2010, , 255-273.		0
121	The European Research and Education Networks. , 0, , 143-154.		0
122	Introducing agent-based modeling and simulation. , 0, , .		0