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	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
2	A Demand-Response Scheme Using Multi-Agent System for Smart DC Microgrid. , 2022, , 700-720.		0
3	A Workflow Architecture for Cloud-based Distributed Simulation. ACM Transactions on Modeling and Computer Simulation, 2022, 32, 1-26.	0.8	1
4	STAMINA: Bioinformatics Platform for Monitoring and Mitigating Pandemic Outbreaks. Technologies, 2022, 10, 63.	5.1	1
5	Towards a Requirement-driven Digital Twin Architecture. Procedia CIRP, 2022, 107, 758-763.	1.9	3
6	Distributed Approaches to Supply Chain Simulation. ACM Transactions on Modeling and Computer Simulation, 2021, 31, 1-31.	0.8	5
7	Using Simulation and Digital Twins to Innovate: Are we Getting Smarter?. , 2021, , .		6
8	Coâ€citation analysis of literature in eâ€science and eâ€infrastructures. Concurrency Computation Practice and Experience, 2020, 32, e5620.	2.2	4
9	Innovations in Simulation: Experiences With Cloud-Based Simulation Experimentation. , 2020, , .		2
10	Modelling investment plans at asset portfolio level using optimum plan rationalisation approaches. IFAC-PapersOnLine, 2020, 53, 143-148.	0.9	1
11	User requirements for national research and education networks for research in West and Central Africa. Information Development, 2019, 35, 575-591.	2.3	3
12	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
13	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
14	High Speed Simulation Analytics. Springer Series in Advanced Manufacturing, 2019, , 167-189.	0.5	2
15	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
16	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
17	Building Global Research Capacity in Public Health: The Case of a Science Gateway for Physical Activity Lifelong Modelling and Simulation. , 2019, , .		3
18	Towards Modelling the Effect of Evolving Violence on Forced Migration. , 2019, , .		2

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19	Towards a Deadline-Based Simulation Experimentation Framework Using Micro-Services Auto-Scaling Approach. , 2019, , .		3
20	Strengthening the reporting of empirical simulation studies: Introducing the STRESS guidelines. Journal of Simulation, 2019, 13, 55-67.	1.5	112
21	Distributed simulation: state-of-the-art and potential for operational research. European Journal of Operational Research, 2019, 273, 1-19.	5.7	38
22	CRISIS, WHAT CRISIS â€“ DOES REPRODUCIBILITY IN MODELING & SIMULATION REALLY MATTER?. , 2018, , .		7
23	APPLYING THE STRESS GUIDELINES FOR REPRODUCIBILITY IN MODELING & SIMULATION: APPLICATION TO A DISEASE MODELING CASE STUDY. , 2018, , .		3
24	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
25	Key performance indicators for successful simulation projects. Journal of the Operational Research Society, 2017, 68, 747-765.	3.4	30
26	A distributed simulation methodological framework for OR/MS applications. Simulation Modelling Practice and Theory, 2017, 70, 101-119.	3.8	26
27	Computational challenges in modeling & simulation of complex systems. , 2017, , .		4
28	CraftBrew: Experiences of developing a low-cost brewery management system with cloud-based simulation. , 2017, , .		0
29	Open science: Approaches and benefits for modeling & simulation. , 2017, , .		11
30	An introduction to developing federations with the High Level Architecture (HLA). , 2017, , .		12
31	Investigating a Science Gateway for an Agent-Based Simulation Application Using REPAST. , 2016, , .		4
32	Demonstrating Open Science for Modeling & Simulation Research. , 2016, , .		4
33	Causal study of low stakeholder engagement in healthcare simulation projects. Journal of the Operational Research Society, 2015, 66, 369-379.	3.4	37
34	Investigating WS-PGRADE workflows for Cloud-based distributed simulation. , 2015, , .		1
35	A study on the state-of-the-art of e-Infrastructures uptake in Africa. Palgrave Communications, 2015, 1, .	4.7	4
36	Easing the Development of HLA Federates: The HLA Development Kit and Its Exploitation in the SEE Project. , 2015, , .		6

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37	Business models for cloud computing: experiences from developing Modeling & Simulation as a Service applications in industry. , 2015, , .		2
38	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
39	A Prototype HLA Development Kit. , 2015, , .		9
40	Grand challenges for modeling and simulation: simulation everywhereâ€"from cyberinfrastructure to clouds to citizens. Simulation, 2015, 91, 648-665.	1.8	46
41	Profiling e-health projects in Africa: trends and funding patterns. Information Development, 2015, 31, 199-218.	2.3	9
42	A hybrid agent-based and Discrete Event Simulation approach for sustainable strategic planning and simulation analytics. , 2014, , .		16
43	Simulation Exploration Experience: A Distributed Hybrid Simulation of a Lunar Mining Operation. , 2014, , .		8
44	Modeling for everyone: Emphasizing the role of modeling in stem education. , 2014, , .		4
45	Student modeling & simulation projects in healthcare: Experiences with Hillingdon Hospital. , 2014, , .		1
46	Introducing agent-based modeling and simulation. , 2014, , 1-10.		5
47	A tutorial on Cloud computing for Agent-based Modeling & Simulation with Repast. , 2014, , .		8
48	Speeding up systems biology simulations of biochemical pathways using condor. Concurrency Computation Practice and Experience, 2014, 26, 2727-2742.	2.2	3
49	Panel: The future of research in modeling & simulation. , 2014, , .		8
50	A review of literature in distributed supply chain simulation. , 2014, , .		4
51	Investigating the speedup of systems biology simulation using the SZTAKI Desktop Grid. , 2014, , .		0
52	Commercial Use of WS-PGRADE/gUSE. , 2014, , 271-286.		3
53	Grand challenges in modeling and simulation. , 2013, , .		9
54	Modeling and simulation grand challenges: An OR/MS perspective. , 2013, , .		19

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55	Distributed hybrid agent-based discrete event emergency medical services simulation. , 2013, , .		22
56	Exploring the E-science Knowledge Base through Co-citation Analysis. Procedia Computer Science, 2013, 19, 586-593.	2.0	16
57	Developing a Distributed Agent-Based and DES Simulation Using poRTIco and Repast. , 2013, , .		12
58	High-performance simulation and simulation methodologies. Simulation, 2013, 89, 1291-1292.	1.8	0
59	Application and support for high-performance simulation. Simulation, 2013, 89, 1151-1153.	1.8	0
60	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
61	Comparative (Computational) Analysis of the DNA Methylation Status of Trinucleotide Repeat Expansion Diseases. Journal of Nucleic Acids, 2013, 2013, 1-9.	1.2	12
62	Security Server-Based Architecture for Mobile Ad Hoc Networks. , 2012, , .		4
63	Panel on grand challenges for modeling and simulation. , 2012, , .		10
64	Service-oriented simulation using web ontology. International Journal of Simulation and Process Modelling, 2012, 7, 217.	0.2	2
65	Motivations and barriers in using distributed supply chain simulation. International Transactions in Operational Research, 2012, 19, 733-751.	2.7	10
66	Challenges for web simulation science. , 2011, , .		3
67	Distributed computing and modeling & simulation: Speeding up simulations and creating large models. , 2011, , .		13
68	Sakergrid: Simulation experimentation using grid enabled simulation software. , 2011, , .		4
69	Binary Histogrammed Intensity Patches for Efficient and Robust Matching. International Journal of Computer Vision, 2011, 94, 241-265.	15.6	16
70	Realising Parallel and Distributed Simulation in Industry: A Roadmap. , 2011, , .		1
71	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
72	Economics of modeling and simulation: Reflections and implications for healthcare. , 2010, , .		3

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73	Improving simulation through advanced computing techniques: Grid computing and simulation interoperability. , 2010, , .		5
74	Profiling Literature in Healthcare Simulation. Simulation, 2010, 86, 543-558.	1.8	84
75	Grid services for Commercial Simulation Packages. , 2010, , .		0
76	Speeding Up Decision Support. , 2010, , 255-273.		0
77	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
78	Speeding up simulation applications using WinGrid. Concurrency Computation Practice and Experience, 2009, 21, 1504-1523.	2.2	19
79	Facilitating the Analysis of a UK National Blood Service Supply Chain Using Distributed Simulation. Simulation, 2009, 85, 113-128.	1.8	63
80	Commercial-Off-The-Shelf Simulation Package interoperability: Issues and futures. , 2009, , .		13
81	Simulation software: evolution or revolution?. Journal of Simulation, 2009, 3, 1-2.	1.5	3
82	Simulation modelling is 50! Do we need a reality check?. Journal of the Operational Research Society, 2009, 60, S69-S82.	3.4	49
83	Leveraging Simulation Practice in Industry through use of Desktop Grid Middleware. , 2009, , 105-129.		0
84	Guidelines for commercial off-the-shelf Simulation Package interoperability. , 2008, , .		7
85	Supporting simulation in industry through the application of grid computing. , 2008, , .		1
86	Clarifying Interoperability: The SISO CSPI PDG Standard for Commercial Off-The-Shelf Simulation Package Interoperability Reference Models. , 2008, , .		0
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	The Journal of Simulation is one year old!. Journal of Simulation, 2008, 2, 1-2.	1.5	0
90	Ontology Engineering for Simulation Component Reuse. International Journal of Enterprise Information Systems, 2008, 4, 47-61.	1.0	11

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91	Semantic Web Service Architecture for Simulation Model Reuse. , 2007, , .		15
92	Panel: distributed simulation in industry - a real-world necessity or ivory tower fancy?. , 2007, , .		12
93	Distributed Tuplespace and Location Management - an Integrated Perspective using Bluetooth. , 2007, , .		2
94	Integrating BOINC with Microsoft Excel: A Case Study. Information Technology Interfaces (ITI), Proceedings of the International Conference on, 2007, , .	0.0	4
95	The siso CSPI PDG standard for commercial off-the-shelf simulation package interoperability reference models. , 2007, , .		6
96	Location Based Mobile Computingâ€“A Tuplespace Perspective. Mobile Information Systems, 2006, 2, 135-149.	0.6	8
97	So where to next? A survey of the future for discrete-event simulation. Journal of Simulation, 2006, 1, 1-6.	1.5	40
98	Grid-enabling FIRST: Speeding Up Simulation Applications Using WinGrid. , 2006, , .		11
99	Distributed Simulation with COTS Simulation Packages: A Case Study in Health Care Supply Chain Simulation. , 2006, , .		6
100	Developing Interoperability Standards for Distributed Simulaton and Cots Simulation Packages with the CSPI PDG. , 2006, , .		6
101	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
102	An Investigation into the Use of Net-Conferencing Groupware in Simulation Modelling. Journal of Computing and Information Technology, 2005, 13, 95.	0.3	4
103	Simulation model reuse: definitions, benefits and obstacles. Simulation Modelling Practice and Theory, 2004, 12, 479-494.	3.8	106
104	GRIDS-SCF: An Infrastructure for Distributed Supply Chain Simulation. Simulation, 2002, 78, 312-320.	1.8	32
105	Research and commercial opportunities in Web-Based Simulation. Simulation Modelling Practice and Theory, 2001, 9, 55-72.	0.3	33
106	Simulation Modelling. OR Insight, 2001, 14, 2-2.	0.1	0
107	Collaborative Simulation Modelling: Part 1. OR Insight, 2001, 14, 3-10.	0.1	0
108	Progress in simulation research: an editorial introduction and overview. Journal of the Operational Research Society, 2000, 51, 383-383.	3.4	0

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109	Simulating Economic Factors in Adjuvant Breast Cancer Treatment. Journal of the Operational Research Society, 2000, 51, 465.	3.4	2
110	Developing interest management techniques in distributed interactive simulation using Java. , 1999, , .		13
111	Computer simulation in healthcare decision making. Computers and Industrial Engineering, 1999, 37, 235-238.	6.3	15
112	Clinical Trials, Economic Evaluation and Simulation. OR Insight, 1998, 11, 22-28.	0.1	0
113	Simulation in Health Care Management: Modelling an Outpatient Clinic. OR Insight, 1998, 11, 7-11.	0.1	9
114	Interactive strategies for developing intuitive knowledge as basis for simulation modeling education. , 1997, , .		0
115	Enhancing simulation education with intelligent tutoring systems. , 1996, , .		1
116	Virtual reality and simulation. , 1996, , .		8
117	Use of simulation to test client-server models. , 1996, , .		6
118	Virtual reality: A distributed perspective. Virtual Reality, 1995, 1, 91-94.	6.1	2
119	Estimating the benefit of the parallelisation of discrete event simulation. , 1995, , .		0
120	Developments in parallel discrete event simulation at the centre for parallel computing. Microprocessing and Microprogramming, 1993, 37, 145-148.	0.2	0
121	The European Research and Education Networks. , 0, , 143-154.		0
122	Introducing agent-based modeling and simulation. , 0, , .		0