Navonil Mustafee

List of Publications by Year
in descending order

123 papers	2,414 citations	331538 21 h-index	276775 41 g-index
131 all docs	131 docs citations	131 times ranked	2023 citing authors

#	Article	IF	Citations
1	Hybrid simulation modelling in operational research: A state-of-the-art review. European Journal of Operational Research, 2019, 278, 721-737.	3.5	229
2	Applications of simulation within the healthcare context. Journal of the Operational Research Society, 2011, 62, 1431-1451.	2.1	218
3	Rethinking health systems strengthening: key systems thinking tools and strategies for transformational change. Health Policy and Planning, 2012, 27, iv54-iv61.	1.0	151
4	Investigating the feasibility of supply chain-centric business models in 3D chocolate printing: A simulation study. Technological Forecasting and Social Change, 2016, 102, 202-213.	6.2	102
5	Profiling Literature in Healthcare Simulation. Simulation, 2010, 86, 543-558.	1.1	84
6	Edutainment for Sustainable Development. Simulation and Gaming, 2015, 46, 647-672.	1.2	74
7	A game-based approach towards facilitating decision making for perishable products: An example of blood supply chain. Expert Systems With Applications, 2014, 41, 4043-4059.	4.4	70
8	Thinking about complexity in health: A systematic review of the key systems thinking and complexity ideas in health. Journal of Evaluation in Clinical Practice, 2018, 24, 600-606.	0.9	69
9	Facilitating the Analysis of a UK National Blood Service Supply Chain Using Distributed Simulation. Simulation, 2009, 85, 113-128.	1.1	63
10	Towards Simulating the Internet of Things. , 2014, , .		51
11	System-focused risk identification and assessment for disaster preparedness: Dynamic threat analysis. European Journal of Operational Research, 2016, 254, 550-564.	3.5	51
12	Profiling a decade of Information Systems Frontiers' research. Information Systems Frontiers, 2009, 11, 87-102.	4.1	49
13	It's unwritten in the Cloud: the technology enablers for realising the promise of Cloud Computing. Journal of Enterprise Information Management, 2010, 23, 673-679.	4.4	48
14	A conceptual framework for hybrid system dynamics and discrete event simulation for healthcare. Journal of Enterprise Information Management, 2013, 26, 50-74.	4.4	48
15	Widening requirements capture with soft methods: an investigation of hybrid M&S studies in health care. Journal of the Operational Research Society, 2017, 68, 1211-1222.	2.1	38
16	FROM HYBRID SIMULATION TO HYBRID SYSTEMS MODELLING. , 2018, , .		34
17	Hybrid models as transdisciplinary research enablers. European Journal of Operational Research, 2021, 291, 1075-1090.	3.5	34
18	Purpose and benefits of hybrid simulation: Contributing to the convergence of its definition. , 2017, , .		33

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19	SYMBIOTIC SIMULATION SYSTEM: HYBRID SYSTEMS MODEL MEETS BIG DATA ANALYTICS. , 2018, , .		33
20	Exploring the modelling and simulation knowledge base through journal co-citation analysis. Scientometrics, 2014, 98, 2145-2159.	1.6	32
21	Hybrid Simulation: Historical lessons, present challenges and futures. , 2016, , .		32
22	Facets of trust in simulation studies. European Journal of Operational Research, 2021, 289, 197-213.	3.5	32
23	Hybrid simulation for modelling large systems: An example of integrated care model. , 2012, , .		30
24	Modelling and simulation of operation and maintenance strategy for offshore wind farms based on multi-agent system. Journal of Intelligent Manufacturing, 2019, 30, 2981-2997.	4.4	30
25	Costâ€effective workforce planning: optimising the dental team skillâ€mix for England. Journal of Enterprise Information Management, 2013, 26, 91-108.	4.4	27
26	A robust stochastic Casualty Collection Points location problem. European Journal of Operational Research, 2019, 279, 965-983.	3.5	27
27	Comparing conventional and distributed approaches to simulation in a complex supply-chain health system. Journal of the Operational Research Society, 2009, 60, 43-51.	2.1	23
28	Profiling research published in the <i>Journal of Enterprise Information Management</i> (<i>JEIM</i>). Journal of Enterprise Information Management, 2010, 23, 8-26.	4.4	22
29	Soft OR approaches in problem formulation stage of a hybrid M&amp;S study. , 2014, , .		22
30	Analysing tradeâ€offs in container loading: combining load plan construction heuristics with agentâ€based simulation. International Transactions in Operational Research, 2013, 20, 471-491.	1.8	21
31	Speeding up simulation applications using WinGrid. Concurrency Computation Practice and Experience, 2009, 21, 1504-1523.	1.4	19
32	Operations research within UK healthcare: a review. Journal of Enterprise Information Management, 2013, 26, 21-49.	4.4	19
33	The blood supply game. , 2010, , .		18
34	A survey of serious games on sustainable development. , 2012, , .		18
35	Hybrid simulation studies and Hybrid Simulation systems: Definitions, challenges, and benefits. , 2015, , .		18
36	Exploring the E-science Knowledge Base through Co-citation Analysis. Procedia Computer Science, 2013, 19, 586-593.	1.2	16

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37	Going beyond waste reduction: Exploring tools and methods for circular economy adoption in small-medium enterprises. Resources, Conservation and Recycling, 2022, 182, 106345.	5.3	16
38	Semantic Web Service Architecture for Simulation Model Reuse. , 2007, , .		15
39	SCS: 60 years and counting! A time to reflect on the Society's scholarly contribution to M&S from the turn of the millennium. Simulation, 2012, 88, 1047-1071.	1.1	15
40	HYBRID SIMULATION CHALLENGES AND OPPORTUNITIES: A LIFE-CYCLE APPROACH. , 2018, , .		15
41	Hybrid Modelling and Simulation (M&S): Driving Innovation in the Theory and Practice of M&S. , 2020, , .		15
42	A profile of OR research and practice published in the <i>Journal of the Operational Research Society</i>. Journal of the Operational Research Society, 2010, 61, 82-94.	2.1	14
43	A Hybrid Modelling Approach Using Forecasting and Real-Time Simulation to Prevent Emergency Department Overcrowding. , 2019, , .		14
44	Commercial-Off-The-Shelf Simulation Package interoperability: Issues and futures. , 2009, , .		13
45	Distributed computing and modeling &amp; simulation: Speeding up simulations and creating large models. , 2011, , .		13
46	An investigation into modeling and simulation approaches for sustainable operations management. Simulation, 2016, 92, 907-919.	1.1	13
47	Hybrid modeling of collaborative freight transportation planning using agent-based simulation, auction-based mechanisms, and optimization. Simulation, 2022, 98, 753-771.	1.1	13
48	Revisiting IoT definitions: A framework towards comprehensive use. Technological Forecasting and Social Change, 2022, 179, 121623.	6.2	13
49	An investigation of Hybrid Simulation for modeling sustainability in healthcare. , 2015, , .		12
50	Grid-enabling FIRST: Speeding Up Simulation Applications Using WinGrid. , 2006, , .		11
51	Ontology Engineering for Simulation Component Reuse. International Journal of Enterprise Information Systems, 2008, 4, 47-61.	0.6	11
52	Exploiting grid computing, desktop grids and cloud computing for eâ€science. Transforming Government: People, Process and Policy, 2010, 4, 288-298.	1.3	11
53	Electronic health records. Journal of Enterprise Information Management, 2013, 26, 165-182.	4.4	11
54	A review of literature in modeling approaches for sustainable development. , 2013, , .		11

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55	Optimal package pricing in healthcare services. Journal of the Operational Research Society, 2020, 71, 1860-1872.	2.1	11
56	Policies and strategies to retain and support the return of experienced GPs in direct patient care: the ReGROUP mixed-methods study. Health Services and Delivery Research, 2019, 7, 1-288.	1.4	11
57	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.	1.1	10
58	An Analysis of Literature on Consumer Adoption and Diffusion of Information System/Information Technology/Information and Communication Technology. International Journal of Electronic Government Research, 2010, 6, 58-73.	0.5	10
59	Motivations and barriers in using distributed supply chain simulation. International Transactions in Operational Research, 2012, 19, 733-751.	1.8	10
60	Using simulation to evaluate a blood supply network in the Canadian maritime provinces. Journal of Enterprise Information Management, 2013, 26, 119-134.	4.4	10
61	Charting the reach and contribution of IMP literature in other disciplines: A bibliometric analysis. Industrial Marketing Management, 2020, 87, 47-62.	3.7	10
62	A hybrid approach using forecasting and discrete-event simulation for endoscopy services. , 2017, , .		9
63	Classification of the existing knowledge base of OR/MS research and practice (1990â€"2019) using a proposed classification scheme. Computers and Operations Research, 2020, 118, 104920.	2.4	9
64	A multi-methodology agent-based approach for Container Loading. , 2011, , .		8
65	Defining an optimal ED fast track strategy using simulation. Journal of Enterprise Information Management, 2013, 26, 109-118.	4.4	8
66	The rÃ´le of knowledge in system risk identification and assessment: The 2014 Ebola outbreak. Journal of the Operational Research Society, 2018, 69, 1286-1308.	2.1	8
67	RH-RT: A DATA ANALYTICS FRAMEWORK FOR REDUCING WAIT TIME AT EMERGENCY DEPARTMENTS AND CENTRES FOR URGENT CARE. , 2018, , .		8
68	Proactive Service Recovery in Emergency Departments. , 2019, , .		8
69	A Distributed Topology Control Algorithm for P2P Based Simulations. , 2007, , .		7
70	Planning of bed capacities in specialized and integrated care units: Incorporating bed blockers in a simulation of surgical throughput. , 2012, , .		7
71	Using a desktop grid to support simulation modelling. , 2006, , .		6
72	Distributed Simulation with COTS Simulation Packages: A Case Study in Health Care Supply Chain Simulation. , 2006, , .		6

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73	The siso CSPI PDG standard for commercial off-the-shelf simulation package interoperability reference models. , 2007, , .		6
74	Simulation for sustainable health care. Journal of Simulation, 2015, 9, 83-85.	1.0	6
75	Human Agency in Disaster Planning: A Systems Approach. Risk Analysis, 2018, 38, 1422-1443.	1.5	6
76	Workforce predictive risk modelling: development of a model to identify general practices at risk of a supplyâ´demand imbalance. BMJ Open, 2020, 10, e027934.	0.8	6
77	Improving simulation through advanced computing techniques: Grid computing and simulation interoperability. , 2010, , .		5
78	Distributed Approaches to Supply Chain Simulation. ACM Transactions on Modeling and Computer Simulation, 2021, 31, 1-31.	0.6	5
79	Primary Healthcare Delivery Network Simulation Using Stochastic Metamodels. , 2020, , .		5
80	Integrating BOINC with Microsoft Excel: A Case Study. Information Technology Interfaces (ITI), Proceedings of the International Conference on, 2007, , .	0.0	4
81	Simulation-based study of hematology outpatient clinics with focus on model reusability. , 2011, , .		4
82	Sakergrid: Simulation experimentation using grid enabled simulation software. , 2011, , .		4
83	A review of literature in distributed supply chain simulation. , 2014, , .		4
84	Distributed Simulation of Supply Chains in the Industry 4.0 Era: A State of the Art Field Overview. Springer Series in Advanced Manufacturing, 2019, , 55-80.	0.2	4
85	Coâ€citation analysis of literature in eâ€science and eâ€infrastructures. Concurrency Computation Practice and Experience, 2020, 32, e5620.	1.4	4
86	Improving decision making in healthcare services through the use of existing simulation modelling tools and new technologies. Transforming Government: People, Process and Policy, 2010, 4, 158-171.	1.3	3
87	Proximity-based modelling of cross-contamination through agent-based simulation: a feasibility study. Health Systems, 2013, 2, 61-71.	0.9	3
88	Implementing a Monteâ€Carlo simulation on admission decisions. Journal of Enterprise Information Management, 2013, 26, 154-164.	4.4	3
89	Speeding up systems biology simulations of biochemical pathways using condor. Concurrency Computation Practice and Experience, 2014, 26, 2727-2742.	1.4	3
90	The Internet of Things: shaping the new Internet space. Concurrency Computation Practice and Experience, 2015, 27, 1815-1818.	1.4	3

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91	Applications of Simulation within the Healthcare Context. , 2016, , 252-295.		3
92	Service-oriented simulation using web ontology. International Journal of Simulation and Process Modelling, 2012, 7, 217.	0.1	2
93	Towards an encyclopedia of Modeling and Simulation methodology. , 2015, , .		2
94	An Application of Distributed Simulation for Hybrid Modeling of Offshore Wind Farms. , 2015, , .		2
95	Modelling for sustainable development using the triple-bottom line: Methods, challenges and the need for hybrid M&S. , 2017, , .		2
96	Broadening Participation in Modelling. , 2019, , .		2
97	Hybrid Simulation Development â€" Is It Just Analytics?. , 2019, , .		2
98	Guest Editorial for the TOMACS Special Issue on the Principles of Advanced Discrete Simulation (PADS). ACM Transactions on Modeling and Computer Simulation, 2017, 27, 1-3.	0.6	2
99	Strategic resource planning of endoscopy services using hybrid modelling for future demographic and policy change. Journal of the Operational Research Society, 2023, 74, 1286-1299.	2.1	2
100	Supporting simulation in industry through the application of grid computing. , 2008, , .		1
101	Learning Maintenance, Repair and Operations (MRO) concepts in offshore wind industry through game-based learning. , 2015, , .		1
102	Operational Research for Emergency Planning in Healthcare: Volume 2. , 2016, , .		1
103	Special issue on modeling and simulation in the era of big data and cloud computing: theory, framework and tools. Simulation, 2017, 93, 271-272.	1.1	1
104	Hybrid systems modeling. Simulation, 2018, 94, 177-178.	1.1	1
105	Profile of modeling and simulation research published in the Journal of Defense Modeling and Simulation. Journal of Defense Modeling and Simulation, 2018, 15, 337-349.	1.2	1
106	Sustainability Analysis in Industry 4.0 Using Computer Modelling and Simulation. Springer Series in Advanced Manufacturing, 2019, , 97-109.	0.2	1
107	NBS Supply Chain Simulation using Simul8 and HLA. , 0, , .		0
108	Grid services for Commercial Simulation Packages. , 2010, , .		0

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109	High-performance simulation and simulation methodologies. Simulation, 2013, 89, 1291-1292.	1.1	0
110	Application and support for high-performance simulation. Simulation, 2013, 89, 1151-1153.	1.1	0
111	Investigating the speedup of systems biology simulation using the SZTAKI Desktop Grid. , 2014, , .		0
112	Modelling for the Triple-Bottom Line: An investigation of Hybrid Simulation for sustainable development analysis. , 2016, , .		0
113	The advances in the state of the art of modeling and simulation: Discrete event system specification (DEVS). Simulation, 2018, 94, 279-280.	1.1	0
114	A Profiling Study of the Summer Computer Simulation Conference. Simulation Foundations, Methods and Applications, 2019, , 157-172.	0.8	0
115	Leveraging Simulation Practice in Industry through use of Desktop Grid Middleware. , 2009, , 105-129.		0
116	Speeding Up Decision Support. , 2010, , 255-273.		0
117	Developing a Broadband Adoption Model in the UK Context. International Federation for Information Processing, 2010, , 192-208.	0.4	0
118	An Analysis of Literature on Consumer Adoption and Diffusion of Information System/Information Technology/Information and Communication Technology. , 2012, , 360-374.		0
119	Operational Research for Healthcare Emergency Planning at a Strategic Level. , 2016, , 1-9.		0
120	A Synthesis of Operational Research for Emergency Planning in Healthcare through the Triple Lens of Technique-Domain-Context. , 2016, , 1-11.		0
121	The European Research and Education Networks. , 0, , 143-154.		0
122	A Discrete Simulation Optimization Approach Towards Calibration of an Agent-Based Simulation Model of Hepatitis C Virus Transmission. , 2021, , .		0
123	The European Research and Education Networks. , 0, , .		0