

Jim Duggan

List of Publications by Citations

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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

977

citations

19

h-index

30

g-index

70

ext. papers

1,319

ext. citations

3.3

avg, IF

4.99

L-index

#	Paper	IF	Citations
63	Applying reinforcement learning towards automating resource allocation and application scalability in the cloud. <i>Concurrency Computation Practice and Experience</i> , 2013 , 25, 1656-1674	1.4	119
62	Multi-objective dynamic economic emission dispatch using particle swarm optimisation variants. <i>Neurocomputing</i> , 2017 , 270, 188-197	5.4	57
61	Forecasting energy demand, wind generation and carbon dioxide emissions in Ireland using evolutionary neural networks. <i>Energy</i> , 2018 , 155, 705-720	7.9	56
60	An mHealth Intervention Using a Smartphone App to Increase Walking Behavior in Young Adults: A Pilot Study. <i>JMIR MHealth and UHealth</i> , 2016 , 4, e109	5.5	54
59	A multi-objective neural network trained with differential evolution for dynamic economic emission dispatch. <i>International Journal of Electrical Power and Energy Systems</i> , 2018 , 100, 201-221	5.1	50
58	Participatory Syndromic Surveillance of Influenza in Europe. <i>Journal of Infectious Diseases</i> , 2016 , 214, S386-S392	7	49
57	Predicting host CPU utilization in the cloud using evolutionary neural networks. <i>Future Generation Computer Systems</i> , 2018 , 86, 162-173	7.5	48
56	Mobile Health Technology Interventions for Suicide Prevention: Systematic Review. <i>JMIR MHealth and UHealth</i> , 2020 , 8, e12516	5.5	40
55	Influenzanet: Citizens Among 10 Countries Collaborating to Monitor Influenza in Europe. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e66	11.4	39
54	Consulting with Citizens in the Design of Wellbeing Measures and Policies: Lessons from a Systems Science Application. <i>Social Indicators Research</i> , 2015 , 123, 857-877	2.7	36
53	The Application of Internet-Based Sources for Public Health Surveillance (Infoveillance): Systematic Review. <i>Journal of Medical Internet Research</i> , 2020 , 22, e13680	7.6	35
52	A Tool to Support Collaborative Software Requirements Management. <i>Requirements Engineering</i> , 2001 , 6, 161-172	2.7	30
51	A Learning Architecture for Scheduling Workflow Applications in the Cloud 2011 ,		28
50	The Validity of Google Trends Search Volumes for Behavioral Forecasting of National Suicide Rates in Ireland. <i>International Journal of Environmental Research and Public Health</i> , 2019 , 16,	4.6	27
49	Are people excessively pessimistic about the risk of coronavirus infection?		25
48	A network aware approach for the scheduling of virtual machine migration during peak loads. <i>Cluster Computing</i> , 2017 , 20, 2083-2094	2.1	20
47	Parallel Reinforcement Learning for Traffic Signal Control. <i>Procedia Computer Science</i> , 2015 , 52, 956-961	1.6	20

46	A School-Level Gravity Model of Student Migration Flows to Higher Education Institutions. <i>Spatial Economic Analysis</i> , 2016 , 11, 294-314	1.6	19
45	Equation-based policy optimization for agent-oriented system dynamics models. <i>System Dynamics Review</i> , 2008 , 24, 97-118	1.6	19
44	A meta optimisation analysis of particle swarm optimisation velocity update equations for watershed management learning. <i>Applied Soft Computing Journal</i> , 2018 , 62, 148-161	7.5	17
43	Policy invariance under reward transformations for multi-objective reinforcement learning. <i>Neurocomputing</i> , 2017 , 263, 60-73	5.4	14
42	System Dynamics Modeling with R. <i>Lecture Notes in Social Networks</i> , 2016 ,	0.6	13
41	Mobile Health Technology Interventions for Suicide Prevention: Protocol for a Systematic Review and Meta-Analysis. <i>JMIR Research Protocols</i> , 2018 , 7, e28	2	13
40	A reinforcement learning approach for the scheduling of live migration from under utilised hosts. <i>Memetic Computing</i> , 2017 , 9, 283-293	3.4	12
39	Unsupervised extraction of epidemic syndromes from participatory influenza surveillance self-reported symptoms. <i>PLoS Computational Biology</i> , 2019 , 15, e1006173	5	12
38	The influence of random interactions and decision heuristics on norm evolution in social networks. <i>Computational and Mathematical Organization Theory</i> , 2011 , 17, 152-178	2.1	10
37	Neural network topology and weight optimization through neuro differential evolution 2017 ,		9
36	Dynamic virtual machine consolidation using a multi-agent system to optimise energy efficiency in cloud computing. <i>Future Generation Computer Systems</i> , 2020 , 108, 288-301	7.5	9
35	Co-evolutionary analysis: a policy exploration method for system dynamics models. <i>System Dynamics Review</i> , 2012 , 28, 361-369	1.6	9
34	A Mobile Health Approach for Improving Outcomes in Suicide Prevention (SafePlan). <i>Journal of Medical Internet Research</i> , 2020 , 22, e17481	7.6	9
33	Are People Optimistically Biased about the Risk of COVID-19 Infection? Lessons from the First Wave of the Pandemic in Europe.. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 19,	4.6	9
32	An evaluation of Hamiltonian Monte Carlo performance to calibrate age-structured compartmental SEIR models to incidence data. <i>Epidemics</i> , 2020 , 33, 100415	5.1	8
31	A parallel framework for Bayesian reinforcement learning. <i>Connection Science</i> , 2014 , 26, 7-23	2.8	7
30	Disease mentions in airport and hospital geolocations expose dominance of news events for disease concerns. <i>Journal of Biomedical Semantics</i> , 2018 , 9, 18	2.2	6
29	Reward shaping for knowledge-based multi-objective multi-agent reinforcement learning. <i>Knowledge Engineering Review</i> , 2018 , 33,	2.1	6

28	Using R libraries to facilitate sensitivity analysis and to calibrate system dynamics models. <i>System Dynamics Review</i> , 2019 , 35, 255-282	1.6	4
27	PandemCap: Decision support tool for epidemic management 2017 ,		4
26	Input and output data analysis for system dynamics modelling using the tidyverse libraries of R. <i>System Dynamics Review</i> , 2018 , 34, 438-461	1.6	4
25	Diffusion Models. <i>Lecture Notes in Social Networks</i> , 2016 , 97-121	0.6	3
24	Multi-agent credit assignment in stochastic resource management games. <i>Knowledge Engineering Review</i> , 2017 , 32,	2.1	3
23	An Empirical Study of the Impact of Systems Thinking and Simulation on Sustainability Education. <i>Sustainability</i> , 2022 , 14, 394	3.6	3
22	Optimization of System Dynamics Models 2020 , 139-152		2
21	System Dynamics and Social-Ecological Systems Framework: Complimentary Methods for Exploring the Dynamics of Complex Systems. <i>Systems Research and Behavioral Science</i> , 2015 , 32, 433-436	1.8	2
20	Observations on the shortest independent loop set algorithm. <i>System Dynamics Review</i> , 2012 , 28, 276-280		2
19	INVESTING IN THE COMMONS: A STUDY OF OPENNESS AND THE EMERGENCE OF COOPERATION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2011 , 14, 229-250	0.8	2
18	Implementing a Metapopulation Bass Diffusion Model using the R Package deSolve. <i>R Journal</i> , 2017 , 9, 153	3.3	2
17	An Introduction to R. <i>Lecture Notes in Social Networks</i> , 2016 , 25-47	0.6	2
16	Watershed management using neuroevolution. <i>Modeling Earth Systems and Environment</i> , 2018 , 4, 1445-1448	3.2	2
15	A distributed computing approach to system dynamics. <i>System Dynamics Review</i> , 2002 , 18, 87-98	1.6	1
14	Mobile Health Technology Interventions for Suicide Prevention: Systematic Review (Preprint)		1
13	Model Analysis and Calibration. <i>Lecture Notes in Social Networks</i> , 2016 , 145-165	0.6	1
12	Using game engines for marine visualisation and collaboration 2016 ,		1
11	Numbers of close contacts of individuals infected with SARS-CoV-2 and their association with government intervention strategies		1

10	The Importance of Spatial Audio in Modern Games and Virtual Environments 2018 ,		1
9	Exploring the experiences of mental health professionals engaged in the adoption of mobile health technology in Irish mental health services. <i>BMC Psychiatry</i> , 2021 , 21, 412	4.2	1
8	Numbers of close contacts of individuals infected with SARS-CoV-2 and their association with government intervention strategies. <i>BMC Public Health</i> , 2021 , 21, 2238	4.1	0
7	Stock-flow thinking: A difficult concept to grasp. <i>Systems Research and Behavioral Science</i> , 2020 , 37, 886-891	3.1	0
6	A Bayesian approach to calibrate system dynamics models using Hamiltonian Monte Carlo. <i>System Dynamics Review</i> , 2021 , 37, 283	1.6	0
5	Exploring the Effect of Misinformation on Infectious Disease Transmission. <i>Systems</i> , 2022 , 10, 50	3	0
4	The role of information systems in public policy design and implementation: Comment on the paper by wheat. <i>Systems Research and Behavioral Science</i> , 2010 , 27, 443-445	1.8	
3	Exploring the opportunity of using machine learning to support the system dynamics method: Comment on the paper by Edali and Ybel. <i>Systems Research and Behavioral Science</i> , 2020 , 37, 959-963	1.8	
2	Addressing public health and security challenges with system dynamics. <i>Systems Research and Behavioral Science</i> , 2020 , 37, 867-874	1.8	
1	Evolved Gossip Contracts - A Framework for Designing Multi-agent Systems. <i>Lecture Notes in Computer Science</i> , 2020 , 637-649	0.9	