Jim Duggan

List of Publications by Year in Descending Order

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	An Empirical Study of the Impact of Systems Thinking and Simulation on Sustainability Education. *Sustainability*, **2022**, 14, 394	3.6	3
62	Exploring the Effect of Misinformation on Infectious Disease Transmission. *Systems*, **2022**, 10, 50	3	0
61	Numbers of close contacts of individuals infected with SARS-CoV-2 and their association with government intervention strategies. *BMC Public Health*, **2021**, 21, 2238	4.1	0
60	A Bayesian approach to calibrate system dynamics models using Hamiltonian Monte Carlo. *System Dynamics Review*, **2021**, 37, 283	1.6	0
59	Exploring the experiences of mental health professionals engaged in the adoption of mobile health technology in Irish mental health services. *BMC Psychiatry*, **2021**, 21, 412	4.2	1
58	Are People Optimistically Biased about the Risk of COVID-19 Infection? Lessons from the First Wave of the Pandemic in Europe.. *International Journal of Environmental Research and Public Health*, **2021**, 19,	4.6	9
57	An evaluation of Hamiltonian Monte Carlo performance to calibrate age-structured compartmental SEIR models to incidence data. *Epidemics*, **2020**, 33, 100415	5.1	8
56	Dynamic virtual machine consolidation using a multi-agent system to optimise energy efficiency in cloud computing. *Future Generation Computer Systems*, **2020**, 108, 288-301	7.5	9
55	Optimization of System Dynamics Models **2020**, 139-152		2
54	Exploring the opportunity of using machine learning to support the system dynamics method: Comment on the paper by Edali and Yücel. *Systems Research and Behavioral Science*, **2020**, 37, 959-963	1.8	
53	Addressing public health and security challenges with system dynamics. *Systems Research and Behavioral Science*, **2020**, 37, 867-874	1.8	
52	Stock-flow thinking: A difficult concept to grasp. *Systems Research and Behavioral Science*, **2020**, 37, 886-891	1.8	0
51	Mobile Health Technology Interventions for Suicide Prevention: Systematic Review. *JMIR MHealth and UHealth*, **2020**, 8, e12516	5.5	40
50	The Application of Internet-Based Sources for Public Health Surveillance (Infoveillance): Systematic Review. *Journal of Medical Internet Research*, **2020**, 22, e13680	7.6	35
49	A Mobile Health Approach for Improving Outcomes in Suicide Prevention (SafePlan). *Journal of Medical Internet Research*, **2020**, 22, e17481	7.6	9
48	Evolved Gossip Contracts - A Framework for Designing Multi-agent Systems. *Lecture Notes in Computer Science*, **2020**, 637-649	0.9	
47	The Validity of Google Trends Search Volumes for Behavioral Forecasting of National Suicide Rates in Ireland. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	27

46	Unsupervised extraction of epidemic syndromes from participatory influenza surveillance self-reported symptoms. *PLoS Computational Biology*, **2019**, 15, e1006173	5	12
45	Using R libraries to facilitate sensitivity analysis and to calibrate system dynamics models. *System Dynamics Review*, **2019**, 35, 255-282	1.6	4
44	A multi-objective neural network trained with differential evolution for dynamic economic emission dispatch. *International Journal of Electrical Power and Energy Systems*, **2018**, 100, 201-221	5.1	50
43	Predicting host CPU utilization in the cloud using evolutionary neural networks. *Future Generation Computer Systems*, **2018**, 86, 162-173	7.5	48
42	A meta optimisation analysis of particle swarm optimisation velocity update equations for watershed management learning. *Applied Soft Computing Journal*, **2018**, 62, 148-161	7.5	17
41	Disease mentions in airport and hospital geolocations expose dominance of news events for disease concerns. *Journal of Biomedical Semantics*, **2018**, 9, 18	2.2	6
40	Forecasting energy demand, wind generation and carbon dioxide emissions in Ireland using evolutionary neural networks. *Energy*, **2018**, 155, 705-720	7.9	56
39	Mobile Health Technology Interventions for Suicide Prevention: Protocol for a Systematic Review and Meta-Analysis. *JMIR Research Protocols*, **2018**, 7, e28	2	13
38	The Importance of Spatial Audio in Modern Games and Virtual Environments **2018**,		1
37	Reward shaping for knowledge-based multi-objective multi-agent reinforcement learning. *Knowledge Engineering Review*, **2018**, 33,	2.1	6
36	Input and output data analysis for system dynamics modelling using the tidyverse libraries of R. *System Dynamics Review*, **2018**, 34, 438-461	1.6	4
35	Watershed management using neuroevolution. *Modeling Earth Systems and Environment*, **2018**, 4, 1445-1448	3.4	2
34	Policy invariance under reward transformations for multi-objective reinforcement learning. *Neurocomputing*, **2017**, 263, 60-73	5.4	14
33	A network aware approach for the scheduling of virtual machine migration during peak loads. *Cluster Computing*, **2017**, 20, 2083-2094	2.1	20
32	Multi-objective dynamic economic emission dispatch using particle swarm optimisation variants. *Neurocomputing*, **2017**, 270, 188-197	5.4	57
31	A reinforcement learning approach for the scheduling of live migration from under utilised hosts. *Memetic Computing*, **2017**, 9, 283-293	3.4	12
30	Neural network topology and weight optimization through neuro differential evolution **2017**,		9
29	Multi-agent credit assignment in stochastic resource management games. *Knowledge Engineering Review*, **2017**, 32,	2.1	3

28	PandemCap: Decision support tool for epidemic management **2017**,		4
27	Influenzanet: Citizens Among 10 Countries Collaborating to Monitor Influenza in Europe. *JMIR Public Health and Surveillance*, **2017**, 3, e66	11.4	39
26	Implementing a Metapopulation Bass Diffusion Model using the R Package deSolve. *R Journal*, **2017**, 9, 153	3.3	2
25	Participatory Syndromic Surveillance of Influenza in Europe. *Journal of Infectious Diseases*, **2016**, 214, S386-S392	7	49
24	System Dynamics Modeling with R. *Lecture Notes in Social Networks*, **2016**,	0.6	13
23	Diffusion Models. *Lecture Notes in Social Networks*, **2016**, 97-121	0.6	3
22	A School-Level Gravity Model of Student Migration Flows to Higher Education Institutions. *Spatial Economic Analysis*, **2016**, 11, 294-314	1.6	19
21	An mHealth Intervention Using a Smartphone App to Increase Walking Behavior in Young Adults: A Pilot Study. *JMIR MHealth and UHealth*, **2016**, 4, e109	5.5	54
20	An Introduction to R. *Lecture Notes in Social Networks*, **2016**, 25-47	0.6	2
19	Model Analysis and Calibration. *Lecture Notes in Social Networks*, **2016**, 145-165	0.6	1
18	Using game engines for marine visualisation and collaboration **2016**,		1
17	Parallel Reinforcement Learning for Traffic Signal Control. *Procedia Computer Science*, **2015**, 52, 956-961	1.6	20
16	System Dynamics and Social-Ecological Systems Framework: Complimentary Methods for Exploring the Dynamics of Complex Systems. *Systems Research and Behavioral Science*, **2015**, 32, 433-436	1.8	2
15	Consulting with Citizens in the Design of Wellbeing Measures and Policies: Lessons from a Systems Science Application. *Social Indicators Research*, **2015**, 123, 857-877	2.7	36
14	A parallel framework for Bayesian reinforcement learning. *Connection Science*, **2014**, 26, 7-23	2.8	7
13	Applying reinforcement learning towards automating resource allocation and application scalability in the cloud. *Concurrency Computation Practice and Experience*, **2013**, 25, 1656-1674	1.4	119
12	Observations on the shortest independent loop set algorithm. *System Dynamics Review*, **2012**, 28, 276-280	1.6	2
11	Co-evolutionary analysis: a policy exploration method for system dynamics models. *System Dynamics Review*, **2012**, 28, 361-369	1.6	9

List of Publications