

Alison Jane Heppenstall

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,875
citations

257450
24
h-index

315739
38
g-index

87
all docs

87
docs citations

87
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
1	Making Space in Geographical Analysis. <i>Geographical Analysis</i> , 2023, 55, 325-341.	3.5	2
2	The utility of multilevel models for continuous-time feature selection of spatio-temporal networks. <i>Computers, Environment and Urban Systems</i> , 2022, 91, 101728.	7.1	1
3	Understanding the impacts of public transit disruptions on bikeshare schemes and cycling behaviours using spatiotemporal and graph-based analysis: A case study of four London Tube strikes. <i>Journal of Transport Geography</i> , 2022, 98, 103255.	5.0	10
4	A synthetic population dataset for estimating small area health and socio-economic outcomes in Great Britain. <i>Scientific Data</i> , 2022, 9, 19.	5.3	6
5	Estimating the effects of lockdown timing on COVID-19 cases and deaths in England: A counterfactual modelling study. <i>PLoS ONE</i> , 2022, 17, e0263432.	2.5	11
6	Estimating the social and spatial impacts of Covid mitigation strategies in United Kingdom regions: synthetic data and dashboards. <i>Cambridge Journal of Regions, Economy and Society</i> , 2022, 15, 683-702.	3.0	2
7	Last-Mile Capacity Constraints in Online Grocery Fulfilment in Great Britain. <i>Journal of Theoretical and Applied Electronic Commerce Research</i> , 2022, 17, 636-651.	5.7	4
8	An Agent-Based Model of Heterogeneous Driver Behaviour and Its Impact on Energy Consumption and Costs in Urban Space. <i>Energies</i> , 2022, 15, 4031.	3.1	2
9	Future Developments in Geographical Agent-Based Models: Challenges and Opportunities. <i>Geographical Analysis</i> , 2021, 53, 76-91.	3.5	40
10	Spatial Microsimulation. , 2021, , 1767-1784.		0
11	Impacts of multiple stressors on mountain communities: Insights from an agent-based model of a Nepalese village. <i>Global Environmental Change</i> , 2021, 66, 102203.	7.8	6
12	Agent-Based Modeling and the City: A Gallery of Applications. <i>Urban Book Series</i> , 2021, , 885-910.	0.6	8
13	An empirically informed agent-based model of a Nepalese smallholder village. <i>MethodsX</i> , 2021, 8, 101276.	1.6	2
14	Estimates of the Ambient Population: Assessing the Utility of Conventional and Novel Data Sources. <i>ISPRS International Journal of Geo-Information</i> , 2021, 10, 131.	2.9	3
15	Estimating Health over Space and Time: A Review of Spatial Microsimulation Applied to Public Health. <i>J</i> , 2021, 4, 182-192.	0.9	2
16	Exploring the Impact of Driver Adherence to Speed Limits and the Interdependence of Roadside Collisions in an Urban Environment: An Agent-Based Modelling Approach. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5336.	2.5	4
17	Challenges, tasks, and opportunities in modeling agent-based complex systems. <i>Ecological Modelling</i> , 2021, 457, 109685.	2.5	65
18	Measuring and Assessing Regional Education Inequalities in China under Changing Policy Regimes. <i>Applied Spatial Analysis and Policy</i> , 2020, 13, 91-112.	2.0	23

#	ARTICLE	IF	CITATIONS
19	Making the case for simulation: Unlocking carbon reduction through simulation of individual â€™middle actorâ€™ behaviour. Environment and Planning B: Urban Analytics and City Science, 2020, 47, 457-472.	2.0	1
20	Methodological Issues of Spatial Agent-Based Models. Jasss, 2020, 23, .	1.8	23
21	Using graph structural information about flows to enhance short-term demand prediction in bike-sharing systems. Computers, Environment and Urban Systems, 2020, 83, 101521.	7.1	52
22	The spatial economics of energy justice: modelling the trade impacts of increased transport costs in a low carbon transition and the implications for UK regional inequality. Energy Policy, 2020, 140, 111378.	8.8	6
23	Sociodemographic and spatial disaggregation of e-commerce channel use in the grocery market in Great Britain. Journal of Retailing and Consumer Services, 2020, 55, 102076.	9.4	43
24	Dealing with uncertainty in agent-based models for short-term predictions. Royal Society Open Science, 2020, 7, 191074.	2.4	30
25	Towards Real-Time Crowd Simulation Under Uncertainty Using an Agent-Based Model and an Unscented Kalman Filter. Lecture Notes in Computer Science, 2020, , 68-79.	1.3	8
26	Simulating Crowds in Real Time with Agent-Based Modelling and a Particle Filter. Jasss, 2020, 23, .	1.8	17
27	A spatiotemporal and graph-based analysis of dockless bike sharing patterns to understand urban flows over the last mile. Computers, Environment and Urban Systems, 2019, 77, 101361.	7.1	95
28	Who, Where, Why and When? Using Smart Card and Social Media Data to Understand Urban Mobility. ISPRS International Journal of Geo-Information, 2019, 8, 271.	2.9	29
29	Guest editorial for spatial agent-based models: current practices and future trends. GeoInformatica, 2019, 23, 163-167.	2.7	7
30	Analysing trajectories of a longitudinal exposure: A causal perspective on common methods in lifecourse research. PLoS ONE, 2019, 14, e0225217.	2.5	6
31	DAG-informed regression modelling, agent-based modelling and microsimulation modelling: a critical comparison of methods for causal inference. International Journal of Epidemiology, 2019, 48, 243-253.	1.9	34
32	Diversity and burglary: Do community differences matter?. Transactions in GIS, 2019, 23, 181-202.	2.3	3
33	How Well Does Western Environmental Theory Explain Crime in the Arabian Context? The Case Study of Riyadh, Saudi Arabia. International Criminal Justice Review, 2019, 29, 5-32.	1.1	3
34	Adjustment for time-invariant and time-varying confounders in â€™unexplained residualsâ€™ models for longitudinal data within a causal framework and associated challenges. Statistical Methods in Medical Research, 2019, 28, 1347-1364.	1.5	2
35	The SIPHER Consortium: Introducing the new UK hub for systems science in public health and health economic research. Wellcome Open Research, 2019, 4, 174.	1.8	20
36	Title is missing!. , 2019, 14, e0225217.		0

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37	Title is missing!. , 2019, 14, e0225217.		0
38	Title is missing!. , 2019, 14, e0225217.		0
39	Title is missing!. , 2019, 14, e0225217.		0
40	A geodemographic classification of sub-districts to identify education inequality in Central Beijing. Computers, Environment and Urban Systems, 2018, 70, 59-70.	7.1	30
41	Developing an Individual-level Geodemographic Classification. Applied Spatial Analysis and Policy, 2018, 11, 417-437.	2.0	11
42	Modelling built-up expansion and densification with multinomial logistic regression, cellular automata and genetic algorithm. Computers, Environment and Urban Systems, 2018, 67, 147-156.	7.1	128
43	Evaluating the potential of agent-based modelling to capture consumer grocery retail store choice behaviours. International Review of Retail, Distribution and Consumer Research, 2018, 28, 27-46.	2.0	14
44	Agent-Based Modeling. , 2018, , 218-243.		19
45	Modelling Individual Evacuation Decisions during Natural Disasters: A Case Study of Volcanic Crisis in Merapi, Indonesia. Geosciences (Switzerland), 2018, 8, 196.	2.2	18
46	Spatial Microsimulation. , 2018, , 1-18.		0
47	Understanding Simulation Results. Understanding Complex Systems, 2017, , 205-227.	0.6	3
48	More bark than bytes? Reflections on 21+ years of geocomputation. Environment and Planning B: Urban Analytics and City Science, 2017, 44, 598-617.	2.0	20
49	Equitable or elitist? The social impact of the 2014 Tour de France Grand D��part. Area, 2017, 49, 60-68.	1.6	3
50	��Space, the Final Frontier��: How Good are Agent-Based Models at Simulating Individuals and Space in Cities?. Systems, 2016, 4, 9.	2.3	56
51	An agent model of urban economics: Digging into emergence. Computers, Environment and Urban Systems, 2015, 54, 414-427.	7.1	8
52	Exploring transport carbon futures using population microsimulation and travel diaries: Beijing to 2030. Transportation Research, Part D: Transport and Environment, 2015, 37, 108-122.	6.8	17
53	Agent Based Exploration of Urban Economic Dynamics Under the Rent-Gap Hypotheses. Lecture Notes in Computer Science, 2015, , 213-227.	1.3	3
54	Synthesising carbon emission for mega-cities: A static spatial microsimulation of transport CO2 from urban travel in Beijing. Computers, Environment and Urban Systems, 2014, 45, 78-88.	7.1	40

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55	Sub regional estimates of morbidities in the English elderly population. Health and Place, 2014, 27, 176-185.	3.3	9
56	Daily travel behaviour in Beijing, China: An analysis of workers' trip chains, and the role of socio-demographics and urban form. Habitat International, 2014, 43, 263-273.	5.8	51
57	Optimising an Agent-Based Model to Explore the Behaviour of Simulated Burglars. Intelligent Systems Reference Library, 2014, , 179-204.	1.2	4
58	Spatial Microsimulation. , 2014, , 1235-1252.		1
59	Simulating Spatial Dynamics and Processes in a Retail Gasoline Market: An Agent-Based Modeling Approach. Transactions in GIS, 2013, 17, 661-682.	2.3	6
60	Understanding Simulation Results. Understanding Complex Systems, 2013, , 173-195.	0.6	11
61	Using an Agent-Based Crime Simulation to Predict the Effects of Urban Regeneration on Individual Household Burglary Risk. Environment and Planning B: Planning and Design, 2013, 40, 405-426.	1.7	38
62	Using Agent-Based Models for Education Planning: Is the UK Education System Agent Based?. , 2012, , 481-497.		8
63	Implementing comprehensive offender behaviour in a realistic agent-based model of burglary. Simulation, 2012, 88, 50-71.	1.8	35
64	Perspectives on Agent-Based Models and Geographical Systems. , 2012, , 1-15.		27
65	Introduction to Agent-Based Modelling. , 2012, , 85-105.		126
66	Creating Realistic Synthetic Populations at Varying Spatial Scales: A Comparative Critique of Population Synthesis Techniques. Jasss, 2012, 15, .	1.8	88
67	Reflections and Conclusions: Geographical Models to Address Grand Challenges. , 2012, , 739-747.		4
68	Extending Spatial Interaction Models with Agents for Understanding Relationships in a Dynamic Retail Market. Urban Studies Research, 2011, 2011, 1-12.	0.6	13
69	Crime reduction through simulation: An agent-based model of burglary. Computers, Environment and Urban Systems, 2010, 34, 236-250.	7.1	92
70	Moses: An Innovative Way to Model Heterogeneity in Complex Social Systems. , 2010, , .		2
71	A conceptual and neural network model for real-time flood forecasting of the Tiber River in Rome. Physics and Chemistry of the Earth, 2010, 35, 187-194.	2.9	45
72	A Fuzzy Cellular Automata Urban Growth Model (FCAUGM) for the City of Riyadh, Saudi Arabia. Part 2: Scenario Testing. Applied Spatial Analysis and Policy, 2009, 2, 85-105.	2.0	20

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73	A Fuzzy Cellular Automata Urban Growth Model (FCAUGM) for the City of Riyadh, Saudi Arabia. Part 1: Model Structure and Validation. Applied Spatial Analysis and Policy, 2009, 2, 65-83.	2.0	32
74	Calibration of a fuzzy cellular automata model of urban dynamics in Saudi Arabia. Ecological Complexity, 2009, 6, 80-101.	2.9	125
75	Neuroevolution Applied to River Level Forecasting Under Winter Flood and Drought Conditions. Journal of Intelligent Systems, 2007, 16, .	1.6	3
76	Timing error correction procedure applied to neural network rainfall runoff modelling. Hydrological Sciences Journal, 2007, 52, 414-431.	2.6	51
77	Genetic Algorithm Optimisation of An Agent-Based Model for Simulating a Retail Market. Environment and Planning B: Planning and Design, 2007, 34, 1051-1070.	1.7	59
78	Symbiotic adaptive neuro-evolution applied to rainfall runoff modelling in northern England. Neural Networks, 2006, 19, 236-247.	5.9	39
79	A Hybrid Multi-Agent/Spatial Interaction Model System for Petrol Price Setting. Transactions in GIS, 2005, 9, 35-51.	2.3	34
80	The Use of Hybrid Agent Based Systems to Model Petrol Markets. , 2005, , 182-193.		2
81	CA City: Simulating Urban Growth through the Application of Cellular Automata. , 0, , .		3
82	Validating Spatial Patterns of Urban Growth from a Cellular Automata Model. , 0, , .		3
83	Simplifying the interpretation of continuous time models for spatio-temporal networks. Journal of Geographical Systems, 0, , 1.	3.1	1
84	Data assimilation and agent-based modelling: towards the incorporation of categorical agent parameters. Open Research Europe, 0, 1, 131.	2.0	2