

Andrew T Crooks

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.

110
papers

2,897
citations

29
h-index

52
g-index

120
ext. papers

3,467
ext. citations

2.9
avg, IF

5.75
L-index

#	Paper	IF	Citations
110	#Earthquake: Twitter as a Distributed Sensor System. <i>Transactions in GIS</i> , 2013 , 17, 124-147	2.1	270
109	Key challenges in agent-based modelling for geo-spatial simulation. <i>Computers, Environment and Urban Systems</i> , 2008 , 32, 417-430	5.9	218
108	Harvesting ambient geospatial information from social media feeds. <i>Geo Journal</i> , 2013 , 78, 319-338	2.2	209
107	Random planar graphs and the London street network. <i>European Physical Journal B</i> , 2009 , 71, 259-271	1.2	122
106	Mapping for the Masses: Accessing Web 2.0 Through Crowdsourcing. <i>Social Science Computer Review</i> , 2009 , 27, 524-538	3.1	110
105	Crowdsourcing urban form and function. <i>International Journal of Geographical Information Science</i> , 2015 , 29, 720-741	4.1	106
104	Map mashups, Web 2.0 and the GIS revolution. <i>Annals of GIS</i> , 2010 , 16, 1-13	4.1	91
103	Introduction to Agent-Based Modelling 2012 , 85-105		90
102	The study of slums as social and physical constructs: challenges and emerging research opportunities. <i>Regional Studies, Regional Science</i> , 2016 , 3, 399-419	1.4	88
101	Assessing Completeness and Spatial Error of Features in Volunteered Geographic Information. <i>ISPRS International Journal of Geo-Information</i> , 2013 , 2, 507-530	2.9	87
100	The Measles Vaccination Narrative in Twitter: A Quantitative Analysis. <i>JMIR Public Health and Surveillance</i> , 2016 , 2, e1	11.4	81
99	GIS and agent-based models for humanitarian assistance. <i>Computers, Environment and Urban Systems</i> , 2013 , 41, 100-111	5.9	73
98	A Critical Review of High and Very High-Resolution Remote Sensing Approaches for Detecting and Mapping Slums: Trends, Challenges and Emerging Opportunities. <i>Urban Science</i> , 2018 , 2, 8	2.2	72
97	Zika in Twitter: Temporal Variations of Locations, Actors, and Concepts. <i>JMIR Public Health and Surveillance</i> , 2017 , 3, e22	11.4	66
96	An agent-based modeling approach applied to the spread of cholera. <i>Environmental Modelling and Software</i> , 2014 , 62, 164-177	5.2	62
95	NeoGeography and Web 2.0: concepts, tools and applications. <i>Journal of Location Based Services</i> , 2009 , 3, 118-145	1.9	62
94	Constructing and implementing an agent-based model of residential segregation through vector GIS. <i>International Journal of Geographical Information Science</i> , 2010 , 24, 661-675	4.1	61

93	Geosocial gauge: a system prototype for knowledge discovery from social media. <i>International Journal of Geographical Information Science</i> , 2013 , 27, 2483-2508	4.1	58
92	Crowdsourcing a Collective Sense of Place. <i>PLoS ONE</i> , 2016 , 11, e0152932	3.7	54
91	Measuring slum severity in Mumbai and Kolkata: A household-based approach. <i>Habitat International</i> , 2014 , 41, 300-306	4.6	50
90	Lessons from the Ebola Outbreak: Action Items for Emerging Infectious Disease Preparedness and Response. <i>EcoHealth</i> , 2016 , 13, 200-12	3.1	47
89	Cancer and Social Media: A Comparison of Traffic about Breast Cancer, Prostate Cancer, and Other Reproductive Cancers on Twitter and Instagram. <i>Journal of Health Communication</i> , 2018 , 23, 181-189	2.5	45
88	The Integration of Agent-Based Modelling and Geographical Information for Geospatial Simulation 2012 , 219-251		45
87	Space, the Final Frontier—How Good are Agent-Based Models at Simulating Individuals and Space in Cities?. <i>Systems</i> , 2016 , 4, 9	3	41
86	Triangulating Social Multimedia Content for Event Localization using Flickr and Twitter. <i>Transactions in GIS</i> , 2015 , 19, 694-715	2.1	40
85	Examining Emergent Communities and Social Bots Within the Polarized Online Vaccination Debate in Twitter. <i>Social Media and Society</i> , 2019 , 5, 205630511986546	2.3	35
84	Linking cyber and physical spaces through community detection and clustering in social media feeds. <i>Computers, Environment and Urban Systems</i> , 2015 , 53, 47-64	5.9	35
83	Slumulation: An Agent-Based Modeling Approach to Slum Formations. <i>Jasss</i> , 2012 , 15,	4.8	34
82	Demarcating new boundaries: mapping virtual polycentric communities through social media content. <i>Cartography and Geographic Information Science</i> , 2013 , 40, 116-129	2.1	33
81	Authoritative and Volunteered Geographical Information in a Developing Country: A Comparative Case Study of Road Datasets in Nairobi, Kenya. <i>ISPRS International Journal of Geo-Information</i> , 2017 , 6, 24	2.9	29
80	Assessing the impact of demographic characteristics on spatial error in volunteered geographic information features. <i>Geo Journal</i> , 2015 , 80, 587-605	2.2	27
79	Modeling the emergence of riots: A geosimulation approach. <i>Computers, Environment and Urban Systems</i> , 2017 , 61, 66-80	5.9	23
78	An Agent-Based Model of Rural Households—Adaptation to Climate Change. <i>Jasss</i> , 2018 , 21,	4.8	19
77	Future Developments in Geographical Agent-Based Models: Challenges and Opportunities. <i>Geographical Analysis</i> , 2021 , 53, 76-91	2.9	18
76	Walk This Way: Improving Pedestrian Agent-Based Models through Scene Activity Analysis. <i>ISPRS International Journal of Geo-Information</i> , 2015 , 4, 1627-1656	2.9	16

75	Agent-based modeling for community resource management: Acequia-based agriculture. <i>Computers, Environment and Urban Systems</i> , 2012 , 36, 562-572	5.9	16
74	Perspectives on Agent-Based Models and Geographical Systems 2012 , 1-15		15
73	Examining Online Vaccination Discussion and Communities in Twitter 2018 ,		14
72	Challenges and Opportunities of Social Media Data for Socio-Environmental Systems Research. <i>Land</i> , 2019 , 8, 107	3.5	14
71	Detecting and mapping slums using open data: a case study in Kenya. <i>International Journal of Digital Earth</i> , 2020 , 13, 683-707	3.9	14
70	Agent-Based Modeling 2018 , 218-243		13
69	Generating and analyzing spatial social networks. <i>Computational and Mathematical Organization Theory</i> , 2017 , 23, 362-390	2.1	12
68	Exploring Creativity and Urban Development with Agent-Based Modeling. <i>Jasss</i> , 2015 , 18,	4.8	12
67	News coverage, digital activism, and geographical saliency: A case study of refugee camps and volunteered geographical information. <i>PLoS ONE</i> , 2018 , 13, e0206825	3.7	12
66	Procedural city generation beyond game development. <i>SIGSPATIAL Special</i> , 2018 , 10, 34-41	2.3	12
65	Creating Smart Buildings and Cities. <i>IEEE Pervasive Computing</i> , 2017 , 16, 23-25	1.3	11
64	International Relations: State-Driven and Citizen-Driven Networks. <i>Social Science Computer Review</i> , 2014 , 32, 205-220	3.1	11
63	Utilizing Python for Agent-Based Modeling: The Mesa Framework. <i>Lecture Notes in Computer Science</i> , 2020 , 308-317	0.9	11
62	Bot stamina: examining the influence and staying power of bots in online social networks. <i>Applied Network Science</i> , 2019 , 4,	2.9	9
61	Projecting cropping patterns around Poyang lake and prioritizing areas for policy intervention to promote rice: A cellular automata model. <i>Land Use Policy</i> , 2018 , 74, 248-260	5.6	9
60	THE EFFECT OF IN-GROUP FAVORITISM ON THE COLLECTIVE BEHAVIOR OF INDIVIDUALS' OPINIONS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2015 , 18, 1550002	0.8	8
59	Crowdsourcing Street View Imagery: A Comparison of Mapillary and OpenStreetCam. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 341	2.9	8
58	Responses to mass shooting events. <i>Criminology and Public Policy</i> , 2020 , 19, 335-360	3	8

57	Computational Social Science of Disasters: Opportunities and Challenges. <i>Future Internet</i> , 2019 , 11, 103	3.3	7
56	Insights into human-wildlife interactions in cities from bird sightings recorded online. <i>Landscape and Urban Planning</i> , 2020 , 196, 103742	7.7	7
55	Multi-Agent Systems for Urban Planning. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2014 , 29-56	0.5	7
54	The MASON Simulation Toolkit: Past, Present, and Future. <i>Lecture Notes in Computer Science</i> , 2019 , 75-86.9		7
53	Location-Based Social Network Data Generation Based on Patterns of Life 2020 ,		7
52	Transportation in Agent-Based Urban Modelling. <i>Lecture Notes in Computer Science</i> , 2017 , 129-148	0.9	6
51	Location-Based Social Simulation 2019 ,		6
50	Generation of Realistic Mega-City Populations and Social Networks for Agent-Based Modeling 2017 ,		5
49	Social Media Engagement With Cancer Awareness Campaigns Declined During the 2016 U.S. Presidential Election. <i>World Medical and Health Policy</i> , 2017 , 9, 456-465	4.2	5
48	Towards a collaborative geosocial analysis workbench 2012 ,		5
47	Location-based social simulation for prescriptive analytics of disease spread. <i>SIGSPATIAL Special</i> , 2020 , 12, 53-61	2.3	5
46	Urban life: a model of people and places. <i>Computational and Mathematical Organization Theory</i> , 2021 , 1-32	2.1	5
45	Bots in Nets: Empirical Comparative Analysis of Bot Evidence in Social Networks. <i>Studies in Computational Intelligence</i> , 2019 , 424-436	0.8	5
44	Exodus 2.0: crowdsourcing geographical and social trails of mass migration. <i>Journal of Geographical Systems</i> , 2019 , 21, 161-187	1.8	5
43	Shaping urbanization to achieve communities resilient to floods. <i>Environmental Research Letters</i> , 2021 , 16, 094033	6.2	5
42	Guest editorial for spatial agent-based models: current practices and future trends. <i>Geoinformatica</i> , 2019 , 23, 163-167	2.5	4
41	A Thematic Similarity Network Approach for Analysis of Places Using Volunteered Geographic Information. <i>ISPRS International Journal of Geo-Information</i> , 2020 , 9, 385	2.9	4
40	Assessing the placeness of locations through user-contributed content 2019 ,		4

39	Advances and Techniques for Building 3D Agent-Based Models for Urban Systems 2011 , 49-65		4
38	Unraveling the complexity of human behavior and urbanization on community vulnerability to floods. <i>Scientific Reports</i> , 2021 , 11, 20085	4-9	4
37	Simulating Urban Patterns of Life 2019 ,		4
36	Agent-Based Modeling and the City: A Gallery of Applications. <i>Urban Book Series</i> , 2021 , 885-910	0-3	4
35	Disease modeling within refugee camps: A multi-agent systems approach 2013 ,		3
34	GeoSim 2018 workshop report the 1st ACM SIGSPATIAL international workshop on geospatial simulation. <i>SIGSPATIAL Special</i> , 2019 , 10, 28-29	2-3	3
33	GeoSim 2019 workshop report: The 2nd ACM SIGSPATIAL International Workshop on Geospatial Simulation. <i>SIGSPATIAL Special</i> , 2020 , 11, 20-22	2-3	3
32	Big data, agents and the city 2017 , 204-213		3
31	Bots fired: examining social bot evidence in online mass shooting conversations. <i>Palgrave Communications</i> , 2019 , 5,	5-3	3
30	Insights into elections: An ensemble bot detection coverage framework applied to the 2018 U.S. midterm elections. <i>PLoS ONE</i> , 2021 , 16, e0244309	3-7	3
29	Spatial Agent-based Modeling to Explore Slum Formation Dynamics in Ahmedabad, India. <i>Advances in Geographic Information Science</i> , 2018 , 121-141	0-3	3
28	Cellular Automata 2017 , 1-9		2
27	Geovisualization of Social Media 2017 , 1-17		2
26	Comparison of Emoji Use in Names, Profiles, and Tweets 2020 ,		2
25	Accuracy Of User-Contributed Image Tagging In Flickr 2016 ,		2
24	Social Simulations for Border Security 2012 ,		2
23	Comparing the spatial characteristics of corresponding cyber and physical communities 2013 ,		2
22	Integrating social networks into large-scale urban simulations for disaster responses 2020 ,		2

21	The Evolving GeoWeb 2014 , 69-96		2
20	Diversity from Emojis and Keywords in Social Media 2020 ,		2
19	Reflections and Conclusions: Geographical Models to Address Grand Challenges 2012 , 739-747		2
18	Drafting Agent-Based Modeling Into Basketball Analytics 2019 ,		2
17	Simulating Urban Shrinkage in Detroit via Agent-Based Modeling. <i>Sustainability</i> , 2021 , 13, 2283	3.6	2
16	Organizing Theories for Disasters into a Complex Adaptive System Framework. <i>Urban Science</i> , 2021 , 5, 61	2.2	2
15	Exploring the Emergence of Organized Crime in Rio de Janeiro: An Agent-Based Modeling Approach 2010 ,		1
14	From Cyber Space Opinion Leaders and the Diffusion of Anti-vaccine Extremism to Physical Space Disease Outbreaks. <i>Lecture Notes in Computer Science</i> , 2017 , 114-119	0.9	1
13	Kinetic Action and Radicalization: A Case Study of Pakistan. <i>Lecture Notes in Computer Science</i> , 2021 , 321-330	0.9	1
12	Scalability in the MASON Multi-Agent Simulation System 2018 ,		1
11	A method to create a synthetic population with social networks for geographically-explicit agent-based models. <i>Computational Urban Science</i> , 2022 , 2, 1		1
10	Development of a Hybrid Machine Learning Agent Based Model for Optimization and Interpretability. <i>Lecture Notes in Computer Science</i> , 2020 , 151-160	0.9	0
9	Creating Intelligent Agents: Combining Agent-Based Modeling with Machine Learning. <i>Springer Proceedings in Complexity</i> , 2021 , 31-58	0.3	0
8	Achieving situational awareness of drug cartels with geolocated social media. <i>Geo Journal</i> , 1	2.2	0
7	Analyzing the vaccination debate in social media data Pre- and Post-COVID-19 pandemic.. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2022 , 110, 102783		0
6	Predicting the Evolution of Narratives in Social Media. <i>Lecture Notes in Computer Science</i> , 2017 , 388-392	0.9	
5	Albeverio, S., Andrey, D., Giordano, P., & Vancheri, A. (Eds.). (2008). The Dynamics of Complex Urban Systems: An Interdisciplinary Approach. <i>Applied Spatial Analysis and Policy</i> , 2010 , 3, 75-76	1.7	
4	The Human Resource Management Parameter Experimentation Tool. <i>Lecture Notes in Computer Science</i> , 2020 , 298-307	0.9	

- 3 Capturing the Effects of Gentrification on Property Values: An Agent-Based Modeling Approach. *Springer Proceedings in Complexity*, **2021**, 245-264 0.3
- 2 Beyond Words: Comparing Structure, Emoji Use, and Consistency Across Social Media Posts. *Lecture Notes in Computer Science*, **2020**, 1-11 0.9
- 1 The Geography of Conflict Diamonds: The Case of Sierra Leone. *Lecture Notes in Computer Science*, **2016**, 335-345 0.9