

Andrew T Crooks

List of Publications by Year in descending order

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Version: 2024-02-01

113
papers

4,264
citations

147786

31
h-index

128286

60
g-index

120
all docs

120
docs citations

120
times ranked

4202
citing authors

#	ARTICLE	IF	CITATIONS
1	Harvesting ambient geospatial information from social media feeds. <i>Geo Journal</i> , 2013, 78, 319-338.	3.1	453
2	#Earthquake: Twitter as a Distributed Sensor System. <i>Transactions in GIS</i> , 2013, 17, 124-147.	2.3	344
3	Key challenges in agent-based modelling for geo-spatial simulation. <i>Computers, Environment and Urban Systems</i> , 2008, 32, 417-430.	7.1	269
4	Random planar graphs and the London street network. <i>European Physical Journal B</i> , 2009, 71, 259-271.	1.5	149
5	Crowdsourcing urban form and function. <i>International Journal of Geographical Information Science</i> , 2015, 29, 720-741.	4.8	148
6	The study of slums as social and physical constructs: challenges and emerging research opportunities. <i>Regional Studies, Regional Science</i> , 2016, 3, 399-419.	1.2	140
7	Mapping for the Masses. <i>Social Science Computer Review</i> , 2009, 27, 524-538.	4.2	135
8	Introduction to Agent-Based Modelling. , 2012, , 85-105.		126
9	The Measles Vaccination Narrative in Twitter: A Quantitative Analysis. <i>JMIR Public Health and Surveillance</i> , 2016, 2, e1.	2.6	112
10	Map mashups, Web 2.0 and the GIS revolution. <i>Annals of GIS</i> , 2010, 16, 1-13.	3.1	111
11	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.	2.3	111
12	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	106
13	An agent-based modeling approach applied to the spread of cholera. <i>Environmental Modelling and Software</i> , 2014, 62, 164-177.	4.5	92
14	GIS and agent-based models for humanitarian assistance. <i>Computers, Environment and Urban Systems</i> , 2013, 41, 100-111.	7.1	90
15	Zika in Twitter: Temporal Variations of Locations, Actors, and Concepts. <i>JMIR Public Health and Surveillance</i> , 2017, 3, e22.	2.6	90
16	NeoGeography and Web 2.0: concepts, tools and applications. <i>Journal of Location Based Services</i> , 2009, 3, 118-145.	1.9	80
17	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.	4.8	79
18	Examining Emergent Communities and Social Bots Within the Polarized Online Vaccination Debate in Twitter. <i>Social Media and Society</i> , 2019, 5, 205630511986546.	3.0	78

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19	Geosocial gauge: a system prototype for knowledge discovery from social media. <i>International Journal of Geographical Information Science</i> , 2013, 27, 2483-2508.	4.8	73
20	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.	2.4	73
21	Crowdsourcing a Collective Sense of Place. <i>PLoS ONE</i> , 2016, 11, e0152932.	2.5	71
22	Measuring slum severity in Mumbai and Kolkata: A household-based approach. <i>Habitat International</i> , 2014, 41, 300-306.	5.8	70
23	Lessons from the Ebola Outbreak: Action Items for Emerging Infectious Disease Preparedness and Response. <i>EcoHealth</i> , 2016, 13, 200-212.	2.0	64
24	“Space, the Final Frontier”: How Good are Agent-Based Models at Simulating Individuals and Space in Cities?. <i>Systems</i> , 2016, 4, 9.	2.3	56
25	The Integration of Agent-Based Modelling and Geographical Information for Geospatial Simulation. , 2012, , 219-251.		55
26	Triangulating Social Multimedia Content for Event Localization using Flickr and Twitter. <i>Transactions in GIS</i> , 2015, 19, 694-715.	2.3	48
27	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.	7.1	47
28	Utilizing Python for Agent-Based Modeling: The Mesa Framework. <i>Lecture Notes in Computer Science</i> , 2020, , 308-317.	1.3	43
29	Slumulation: An Agent-Based Modeling Approach to Slum Formations. <i>Jasss</i> , 2012, 15, .	1.8	43
30	Future Developments in Geographical Agent-Based Models: Challenges and Opportunities. <i>Geographical Analysis</i> , 2021, 53, 76-91.	3.5	40
31	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	37
32	Demarcating new boundaries: mapping virtual polycentric communities through social media content. <i>Cartography and Geographic Information Science</i> , 2013, 40, 116-129.	3.0	36
33	Modeling the emergence of riots: A geosimulation approach. <i>Computers, Environment and Urban Systems</i> , 2017, 61, 66-80.	7.1	33
34	Assessing the impact of demographic characteristics on spatial error in volunteered geographic information features. <i>Geo Journal</i> , 2015, 80, 587-605.	3.1	31
35	An Agent-Based Model of Rural Households’ Adaptation to Climate Change. <i>Jasss</i> , 2018, 21, .	1.8	30
36	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	27

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37	Perspectives on Agent-Based Models and Geographical Systems. , 2012, , 1-15.		27
38	Walk This Way: Improving Pedestrian Agent-Based Models through Scene Activity Analysis. ISPRS International Journal of Geo-Information, 2015, 4, 1627-1656.	2.9	26
39	Challenges and Opportunities of Social Media Data for Socio-Environmental Systems Research. Land, 2019, 8, 107.	2.9	25
40	Agent-based modeling for community resource management: Acequia-based agriculture. Computers, Environment and Urban Systems, 2012, 36, 562-572.	7.1	23
41	Procedural city generation beyond game development. SIGSPATIAL Special, 2018, 10, 34-41.	2.7	22
42	News coverage, digital activism, and geographical saliency: A case study of refugee camps and volunteered geographical information. PLoS ONE, 2018, 13, e0206825.	2.5	20
43	Crowdsourcing Street View Imagery: A Comparison of Mapillary and OpenStreetCam. ISPRS International Journal of Geo-Information, 2020, 9, 341.	2.9	20
44	Generating and analyzing spatial social networks. Computational and Mathematical Organization Theory, 2017, 23, 362-390.	2.0	19
45	Agent-Based Modeling. , 2018, , 218-243.		19
46	Insights into human-wildlife interactions in cities from bird sightings recorded online. Landscape and Urban Planning, 2020, 196, 103742.	7.5	19
47	Shaping urbanization to achieve communities resilient to floods. Environmental Research Letters, 2021, 16, 094033.	5.2	19
48	Unraveling the complexity of human behavior and urbanization on community vulnerability to floods. Scientific Reports, 2021, 11, 20085.	3.3	19
49	Creating Smart Buildings and Cities. IEEE Pervasive Computing, 2017, 16, 23-25.	1.3	18
50	Bot stamina: examining the influence and staying power of bots in online social networks. Applied Network Science, 2019, 4, .	1.5	18
51	Exploring Creativity and Urban Development with Agent-Based Modeling. Jasss, 2015, 18, .	1.8	18
52	Location-Based Social Network Data Generation Based on Patterns of Life. , 2020, , .		17
53	Examining Online Vaccination Discussion and Communities in Twitter. , 2018, , .		16
54	Location-Based Social Simulation. , 2019, , .		13

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55	Computational Social Science of Disasters: Opportunities and Challenges. <i>Future Internet</i> , 2019, 11, 103.	3.8	13
56	Simulating Urban Patterns of Life. , 2019, , .		13
57	Transportation in Agent-Based Urban Modelling. <i>Lecture Notes in Computer Science</i> , 2017, , 129-148.	1.3	12
58	The MASON Simulation Toolkit: Past, Present, and Future. <i>Lecture Notes in Computer Science</i> , 2019, , 75-86.	1.3	12
59	Responses to mass shooting events. <i>Criminology and Public Policy</i> , 2020, 19, 335-360.	3.1	12
60	Location-based social simulation for prescriptive analytics of disease spread. <i>SIGSPATIAL Special</i> , 2020, 12, 53-61.	2.7	12
61	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.	1.4	11
62	Generation of Realistic Mega-City Populations and Social Networks for Agent-Based Modeling. , 2017, , .		11
63	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	11
64	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.	1.6	10
65	Exodus 2.0: crowdsourcing geographical and social trails of mass migration. <i>Journal of Geographical Systems</i> , 2019, 21, 161-187.	3.1	10
66	Bots fired: examining social bot evidence in online mass shooting conversations. <i>Palgrave Communications</i> , 2019, 5, .	4.7	10
67	Bots in Nets: Empirical Comparative Analysis of Bot Evidence in Social Networks. <i>Studies in Computational Intelligence</i> , 2019, , 424-436.	0.9	9
68	A method to create a synthetic population with social networks for geographically-explicit agent-based models. <i>Computational Urban Science</i> , 2022, 2, 1.	3.2	9
69	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.	1.9	9
70	Agent-Based Modeling and the City: A Gallery of Applications. <i>Urban Book Series</i> , 2021, , 885-910.	0.6	8
71	Urban life: a model of people and places. <i>Computational and Mathematical Organization Theory</i> , 2023, 29, 20-51.	2.0	8
72	Towards a collaborative geosocial analysis workbench. , 2012, , .		7

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73	Spatial Agent-based Modeling to Explore Slum Formation Dynamics in Ahmedabad, India. <i>Advances in Geographic Information Science</i> , 2018, , 121-141.	0.6	7
74	Guest editorial for spatial agent-based models: current practices and future trends. <i>GeoInformatica</i> , 2019, 23, 163-167.	2.7	7
75	Multi-Agent Systems for Urban Planning. <i>Advances in Civil and Industrial Engineering Book Series</i> , 2014, , 29-56.	0.2	7
76	Simulating Urban Shrinkage in Detroit via Agent-Based Modeling. <i>Sustainability</i> , 2021, 13, 2283.	3.2	6
77	Advances and Techniques for Building 3D Agent-Based Models for Urban Systems. , 2011, , 49-65.		6
78	Disease modeling within refugee camps: A multi-agent systems approach. , 2013, , .		5
79	Insights into elections: An ensemble bot detection coverage framework applied to the 2018 U.S. midterm elections. <i>PLoS ONE</i> , 2021, 16, e0244309.	2.5	5
80	Social Simulations for Border Security. , 2012, , .		4
81	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
82	Assessing the placeness of locations through user-contributed content. , 2019, , .		4
83	Reflections and Conclusions: Geographical Models to Address Grand Challenges. , 2012, , 739-747.		4
84	Accuracy Of User-Contributed Image Tagging In Flickr. , 2016, , .		3
85	Scalability in the MASON Multi-Agent Simulation System. , 2018, , .		3
86	Drafting Agent-Based Modeling Into Basketball Analytics. , 2019, , .		3
87	Organizing Theories for Disasters into a Complex Adaptive System Framework. <i>Urban Science</i> , 2021, 5, 61.	2.3	3
88	GeoSim 2018 workshop report the 1st ACM SIGSPATIAL international workshop on geospatial simulation. <i>SIGSPATIAL Special</i> , 2019, 10, 28-29.	2.7	3
89	GeoSim 2019 workshop report: The 2nd ACM SIGSPATIAL International Workshop on Geospatial Simulation. <i>SIGSPATIAL Special</i> , 2020, 11, 20-22.	2.7	3
90	Integrating social networks into large-scale urban simulations for disaster responses. , 2020, , .		3

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91	Big data, agents and the city. , 2017, , 204-213.		3
92	Diversity from Emojis and Keywords in Social Media. , 2020, , .		3
93	Delineating a '15-minute city'. , 2021, , .		3
94	Exploring the Emergence of Organized Crime in Rio de Janeiro: An Agent-Based Modeling Approach. , 2010, , .		2
95	Comparing the spatial characteristics of corresponding cyber and physical communities. , 2013, , .		2
96	Comparison of Emoji Use in Names, Profiles, and Tweets. , 2020, , .		2
97	Achieving situational awareness of drug cartels with geolocated social media. <i>Geo Journal</i> , 2022, 87, 3453-3471.	3.1	2
98	An integrated framework of global sensitivity analysis and calibration for spatially explicit agent-based models. <i>Transactions in GIS</i> , 2022, 26, 100-128.	2.3	2
99	The Evolving GeoWeb. , 2014, , 69-96.		2
100	Creating Intelligent Agents: Combining Agent-Based Modeling with Machine Learning. <i>Springer Proceedings in Complexity</i> , 2021, , 31-58.	0.3	2
101	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.	1.3	1
102	Development of a Hybrid Machine Learning Agent Based Model for Optimization and Interpretability. <i>Lecture Notes in Computer Science</i> , 2020, , 151-160.	1.3	1
103	Albeverio, S., Andrey, D., Giordano, P., & Vancheri, A. (Eds.). (2008). <i>The Dynamics of Complex Urban Systems: An Interdisciplinary Approach</i> . <i>Applied Spatial Analysis and Policy</i> , 2010, 3, 75-76.	2.0	0
104	Predicting the Evolution of Narratives in Social Media. <i>Lecture Notes in Computer Science</i> , 2017, , 388-392.	1.3	0
105	News Coverage, Digital Activism, and Geographical Saliency: A Case Study of Refugee Camps and Volunteered Geographical Information. <i>SSRN Electronic Journal</i> , 2018, , .	0.4	0
106	Sea Bright, New Jersey Reconstructed: Agent-Based Protection Theory Model Responses to Hurricane Sandy. , 2019, , .		0
107	Capturing the Effects of Gentrification on Property Values: An Agent-Based Modeling Approach. <i>Springer Proceedings in Complexity</i> , 2021, , 245-264.	0.3	0
108	Can Pakistan Have Creative Cities? An Agent Based Modeling Approach with Preliminary Application to Karachi. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

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109	The Geography of Conflict Diamonds: The Case of Sierra Leone. Lecture Notes in Computer Science, 2016, , 335-345.	1.3	0
110	The impact of message quality on entity location and identification performance in distributed situational awareness. , 2019, , .		0
111	Beyond Words: Comparing Structure, Emoji Use, and Consistency Across Social Media Posts. Lecture Notes in Computer Science, 2020, , 1-11.	1.3	0
112	The Human Resource Management Parameter Experimentation Tool. Lecture Notes in Computer Science, 2020, , 298-307.	1.3	0
113	Drone strikes and radicalization: an exploration utilizing agent-based modeling and data applied to Pakistan. Computational and Mathematical Organization Theory, 0, , .	2.0	0