Andrew T Crooks

List of Publications by Year in Descending Order

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	A method to create a synthetic population with social networks for geographically-explicit agent-based models. *Computational Urban Science*, **2022**, 2, 1		1
109	Analyzing the vaccination debate in social media data Pre- and Post-COVID-19 pandemic.. *International Journal of Applied Earth Observation and Geoinformation*, **2022**, 110, 102783		0
108	Urban life: a model of people and places. *Computational and Mathematical Organization Theory*, **2021**, 1-32	2.1	5
107	Creating Intelligent Agents: Combining Agent-Based Modeling with Machine Learning. *Springer Proceedings in Complexity*, **2021**, 31-58	0.3	0
106	Capturing the Effects of Gentrification on Property Values: An Agent-Based Modeling Approach. *Springer Proceedings in Complexity*, **2021**, 245-264	0.3	
105	Unraveling the complexity of human behavior and urbanization on community vulnerability to floods. *Scientific Reports*, **2021**, 11, 20085	4.9	4
104	Future Developments in Geographical Agent-Based Models: Challenges and Opportunities. *Geographical Analysis*, **2021**, 53, 76-91	2.9	18
103	Insights into elections: An ensemble bot detection coverage framework applied to the 2018 U.S. midterm elections. *PLoS ONE*, **2021**, 16, e0244309	3.7	3
102	Kinetic Action and Radicalization: A Case Study of Pakistan. *Lecture Notes in Computer Science*, **2021** , 321-330	0.9	1
101	Agent-Based Modeling and the City: A Gallery of Applications. *Urban Book Series*, **2021**, 885-910	0.3	4
100	Simulating Urban Shrinkage in Detroit via Agent-Based Modeling. *Sustainability*, **2021**, 13, 2283	3.6	2
99	Organizing Theories for Disasters into a Complex Adaptive System Framework. *Urban Science*, **2021** , 5, 61	2.2	2
98	Shaping urbanization to achieve communities resilient to floods. *Environmental Research Letters*, **2021**, 16, 094033	6.2	5
97	Crowdsourcing Street View Imagery: A Comparison of Mapillary and OpenStreetCam. *ISPRS International Journal of Geo-Information*, **2020**, 9, 341	2.9	8
96	Comparison of Emoji Use in Names, Profiles, and Tweets **2020**,		2
95	A Thematic Similarity Network Approach for Analysis of Places Using Volunteered Geographic Information. *ISPRS International Journal of Geo-Information*, **2020**, 9, 385	2.9	4
94	Insights into human-wildlife interactions in cities from bird sightings recorded online. *Landscape and Urban Planning*, **2020**, 196, 103742	7.7	7

93	Responses to mass shooting events. *Criminology and Public Policy*, **2020**, 19, 335-360	3	8
92	GeoSim 2019 workshop report: The 2nd ACM SIGSPATIAL International Workshop on Geospatial Simulation. *SIGSPATIAL Special*, **2020**, 11, 20-22	2.3	3
91	Location-based social simulation for prescriptive analytics of disease spread. *SIGSPATIAL Special*, **2020**, 12, 53-61	2.3	5
90	Integrating social networks into large-scale urban simulations for disaster responses **2020**,		2
89	Development of a Hybrid Machine Learning Agent Based Model for Optimization and Interpretability. *Lecture Notes in Computer Science*, **2020**, 151-160	0.9	0
88	The Human Resource Management Parameter Experimentation Tool. *Lecture Notes in Computer Science*, **2020**, 298-307	0.9	
87	Beyond Words: Comparing Structure, Emoji Use, and Consistency Across Social Media Posts. *Lecture Notes in Computer Science*, **2020**, 1-11	0.9	
86	Diversity from Emojis and Keywords in Social Media **2020**,		2
85	Utilizing Python for Agent-Based Modeling: The Mesa Framework. *Lecture Notes in Computer Science*, **2020**, 308-317	0.9	11
84	Location-Based Social Network Data Generation Based on Patterns of Life **2020**,		7
83	Detecting and mapping slums using open data: a case study in Kenya. *International Journal of Digital Earth*, **2020**, 13, 683-707	3.9	14
82	Location-Based Social Simulation **2019**,		6
81	Bot stamina: examining the influence and staying power of bots in online social networks. *Applied Network Science*, **2019**, 4,	2.9	9
80	Examining Emergent Communities and Social Bots Within the Polarized Online Vaccination Debate in Twitter. *Social Media and Society*, **2019**, 5, 205630511986546	2.3	35
79	Computational Social Science of Disasters: Opportunities and Challenges. *Future Internet*, **2019**, 11, 103	3.3	7
78	Guest editorial for spatial agent-based models: current practices and future trends. *GeoInformatica*, **2019**, 23, 163-167	2.5	4
77	Challenges and Opportunities of Social Media Data for Socio-Environmental Systems Research. *Land*, **2019**, 8, 107	3.5	14
76	GeoSim 2018 workshop report the 1st ACM SIGSPATIAL international workshop on geospatial simulation. *SIGSPATIAL Special*, **2019**, 10, 28-29	2.3	3

75	Assessing the placeness of locations through user-contributed content **2019**,		4
74	Simulating Urban Patterns of Life **2019**,		4
73	Bots in Nets: Empirical Comparative Analysis of Bot Evidence in Social Networks. *Studies in Computational Intelligence*, **2019**, 424-436	0.8	5
72	The MASON Simulation Toolkit: Past, Present, and Future. *Lecture Notes in Computer Science*, **2019**, 75-86	0.9	7
71	Bots fired: examining social bot evidence in online mass shooting conversations. *Palgrave Communications*, **2019**, 5,	5.3	3
70	Drafting Agent-Based Modeling Into Basketball Analytics **2019**,		2
69	Exodus 2.0: crowdsourcing geographical and social trails of mass migration. *Journal of Geographical Systems*, **2019**, 21, 161-187	1.8	5
68	Projecting cropping patterns around Poyang lake and prioritizing areas for policy intervention to promote rice: A cellular automata model. *Land Use Policy*, **2018**, 74, 248-260	5.6	9
67	Cancer and Social Media: A Comparison of Traffic about Breast Cancer, Prostate Cancer, and Other Reproductive Cancers on Twitter and Instagram. *Journal of Health Communication*, **2018**, 23, 181-189	2.5	45
66	Agent-Based Modeling **2018**, 218-243		13
65	A Critical Review of High and Very High-Resolution Remote Sensing Approaches for Detecting and Mapping Slums: Trends, Challenges and Emerging Opportunities. *Urban Science*, **2018**, 2, 8	2.2	72
64	Examining Online Vaccination Discussion and Communities in Twitter **2018**,		14
63	An Agent-Based Model of Rural Households Adaptation to Climate Change. *Jasss*, **2018**, 21,	4.8	19
62	Spatial Agent-based Modeling to Explore Slum Formation Dynamics in Ahmedabad, India. *Advances in Geographic Information Science*, **2018**, 121-141	0.3	3
61	Scalability in the MASON Multi-Agent Simulation System **2018**,		1
60	News coverage, digital activism, and geographical saliency: A case study of refugee camps and volunteered geographical information. *PLoS ONE*, **2018**, 13, e0206825	3.7	12
59	Procedural city generation beyond game development. *SIGSPATIAL Special*, **2018**, 10, 34-41	2.3	12
58	Transportation in Agent-Based Urban Modelling. *Lecture Notes in Computer Science*, **2017**, 129-148	0.9	6

57	Creating Smart Buildings and Cities. *IEEE Pervasive Computing*, **2017**, 16, 23-25	1.3	11
56	Cellular Automata **2017**, 1-9		2
55	Geovisualization of Social Media **2017**, 1-17		2
54	Authoritative and Volunteered Geographical Information in a Developing Country: A Comparative Case Study of Road Datasets in Nairobi, Kenya. *ISPRS International Journal of Geo-Information*, **2017**, 6, 24	2.9	29
53	Generation of Realistic Mega-City Populations and Social Networks for Agent-Based Modeling **2017** ,		5
52	Predicting the Evolution of Narratives in Social Media. *Lecture Notes in Computer Science*, **2017**, 388-392	0.9	
51	Social Media Engagement With Cancer Awareness Campaigns Declined During the 2016 U.S. Presidential Election. *World Medical and Health Policy*, **2017**, 9, 456-465	4.2	5
50	Modeling the emergence of riots: A geosimulation approach. *Computers, Environment and Urban Systems*, **2017**, 61, 66-80	5.9	23
49	Generating and analyzing spatial social networks. *Computational and Mathematical Organization Theory*, **2017**, 23, 362-390	2.1	12
48	Zika in Twitter: Temporal Variations of Locations, Actors, and Concepts. *JMIR Public Health and Surveillance*, **2017**, 3, e22	11.4	66
47	Big data, agents and the city **2017**, 204-213		3
46	From Cyber Space Opinion Leaders and the Diffusion of Anti-vaccine Extremism to Physical Space Disease Outbreaks. *Lecture Notes in Computer Science*, **2017**, 114-119	0.9	1
45	Accuracy Of User-Contributed Image Tagging In Flickr **2016**,		2
44	Lessons from the Ebola Outbreak: Action Items for Emerging Infectious Disease Preparedness and Response. *EcoHealth*, **2016**, 13, 200-12	3.1	47
43	The Measles Vaccination Narrative in Twitter: A Quantitative Analysis. *JMIR Public Health and Surveillance*, **2016**, 2, e1	11.4	81
42	The Geography of Conflict Diamonds: The Case of Sierra Leone. *Lecture Notes in Computer Science*, **2016**, 335-345	0.9	
41	Space, the Final Frontier How Good are Agent-Based Models at Simulating Individuals and Space in Cities?. *Systems*, **2016**, 4, 9	3	41
40	Crowdsourcing a Collective Sense of Place. *PLoS ONE*, **2016**, 11, e0152932	3.7	54

39	The study of slums as social and physical constructs: challenges and emerging research opportunities. *Regional Studies, Regional Science*, **2016**, 3, 399-419	1.4	88
38	THE EFFECT OF IN-GROUP FAVORITISM ON THE COLLECTIVE BEHAVIOR OF INDIVIDUALS' OPINIONS. *International Journal of Modeling, Simulation, and Scientific Computing*, **2015**, 18, 1550002	0.8	8
37	Linking cyber and physical spaces through community detection and clustering in social media feeds. *Computers, Environment and Urban Systems*, **2015**, 53, 47-64	5.9	35
36	Assessing the impact of demographic characteristics on spatial error in volunteered geographic information features. *Geo Journal*, **2015**, 80, 587-605	2.2	27
35	Triangulating Social Multimedia Content for Event Localization using Flickr and Twitter. *Transactions in GIS*, **2015**, 19, 694-715	2.1	40
34	Walk This Way: Improving Pedestrian Agent-Based Models through Scene Activity Analysis. *ISPRS International Journal of Geo-Information*, **2015**, 4, 1627-1656	2.9	16
33	Crowdsourcing urban form and function. *International Journal of Geographical Information Science*, **2015**, 29, 720-741	4.1	106
32	Exploring Creativity and Urban Development with Agent-Based Modeling. *Jasss*, **2015**, 18,	4.8	12
31	An agent-based modeling approach applied to the spread of cholera. *Environmental Modelling and Software*, **2014**, 62, 164-177	5.2	62
30	Measuring slum severity in Mumbai and Kolkata: A household-based approach. *Habitat International* , **2014**, 41, 300-306	4.6	50
29	International Relations: State-Driven and Citizen-Driven Networks. *Social Science Computer Review*, **2014**, 32, 205-220	3.1	11
28	The Evolving GeoWeb **2014**, 69-96		2
27	Multi-Agent Systems for Urban Planning. *Advances in Civil and Industrial Engineering Book Series*, **2014**, 29-56	0.5	7
26	Harvesting ambient geospatial information from social media feeds. *Geo Journal*, **2013**, 78, 319-338	2.2	209
25	Demarcating new boundaries: mapping virtual polycentric communities through social media content. *Cartography and Geographic Information Science*, **2013**, 40, 116-129	2.1	33
24	#Earthquake: Twitter as a Distributed Sensor System. *Transactions in GIS*, **2013**, 17, 124-147	2.1	270
23	Geosocial gauge: a system prototype for knowledge discovery from social media. *International Journal of Geographical Information Science*, **2013**, 27, 2483-2508	4.1	58
22	Disease modeling within refugee camps: A multi-agent systems approach **2013**,		3

21	GIS and agent-based models for humanitarian assistance. *Computers, Environment and Urban Systems*, **2013**, 41, 100-111	5.9	73
20	Comparing the spatial characteristics of corresponding cyber and physical communities **2013**,		2
19	Assessing Completeness and Spatial Error of Features in Volunteered Geographic Information. *ISPRS International Journal of Geo-Information*, **2013**, 2, 507-530	2.9	87
18	Social Simulations for Border Security **2012**,		2
17	Agent-based modeling for community resource management: Acequia-based agriculture. *Computers, Environment and Urban Systems*, **2012**, 36, 562-572	5.9	16
16	The Integration of Agent-Based Modelling and Geographical Information for Geospatial Simulation **2012**, 219-251		45
15	Towards a collaborative geosocial analysis workbench **2012**,		5
14	Slumulation: An Agent-Based Modeling Approach to Slum Formations. *Jasss*, **2012**, 15,	4.8	34
13	Perspectives on Agent-Based Models and Geographical Systems **2012**, 1-15		15
12	Introduction to Agent-Based Modelling **2012**, 85-105		90
11	Reflections and Conclusions: Geographical Models to Address Grand Challenges **2012**, 739-747		2
10	Advances and Techniques for Building 3D Agent-Based Models for Urban Systems **2011**, 49-65		4
9	Exploring the Emergence of Organized Crime in Rio de Janeiro: An Agent-Based Modeling Approach **2010**,		1
8	Constructing and implementing an agent-based model of residential segregation through vector GIS. *International Journal of Geographical Information Science*, **2010**, 24, 661-675	4.1	61
7	Map mashups, Web 2.0 and the GIS revolution. *Annals of GIS*, **2010**, 16, 1-13	4.1	91
6	Albeverio, S., Andrey, D., Giordano, P., & Vancheri, A. (Eds.). (2008). The Dynamics of Complex Urban Systems: An Interdisciplinary Approach. *Applied Spatial Analysis and Policy*, **2010**, 3, 75-76	1.7	
5	Mapping for the Masses: Accessing Web 2.0 Through Crowdsourcing. *Social Science Computer Review*, **2009**, 27, 524-538	3.1	110
4	NeoGeography and Web 2.0: concepts, tools and applications. *Journal of Location Based Services*, **2009**, 3, 118-145	1.9	62

3	Random planar graphs and the London street network. *European Physical Journal B*, **2009**, 71, 259-271	1.2	122
2	Key challenges in agent-based modelling for geo-spatial simulation. *Computers, Environment and Urban Systems*, **2008**, 32, 417-430	5.9	218
1	Achieving situational awareness of drug cartels with geolocated social media. *Geo Journal*,1	2.2	0