Muaz A Niazi

List of Publications by Year
in descending order

63 papers	1,003 citations	759055 12 h-index	501076 28 g-index
66 all docs	66 docs citations	66 times ranked	948 citing authors

#	Article	IF	Citations
1	Agent-based computing from multi-agent systems to agent-based models: a visual survey. Scientometrics, 2011, 89, 479-499.	1.6	234
2	Agent-based tools for modeling and simulation of self-organization in peer-to-peer, ad hoc, and other complex networks. , 2009, 47, 166-173.		88
3	Towards a Methodology for Validation of Centrality Measures in Complex Networks. PLoS ONE, 2014, 9, e90283.	1.1	87
4	A Novel Agent-Based Simulation Framework for Sensing in Complex Adaptive Environments. IEEE Sensors Journal, 2011, 11, 404-412.	2.4	60
5	Complex Adaptive Systems Modeling: A multidisciplinary Roadmap. Complex Adaptive Systems Modeling, 2013, 1, .	1.6	45
6	Modeling the Internet of Things, Self-Organizing and Other Complex Adaptive Communication Networks: A Cognitive Agent-Based Computing Approach. PLoS ONE, 2016, 11, e0146760.	1.1	45
7	Modeling the internet of things: a hybrid modeling approach using complex networks and agent-based models. Complex Adaptive Systems Modeling, 2017, 5, .	1.6	42
8	Cloud identity management security issues & solutions: a taxonomy. Complex Adaptive Systems Modeling, 2014, 2, .	1.6	38
9	A Fuzzy Approach of Sensitivity for Multiple Colonies on Ant Colony Optimization. Advances in Intelligent Systems and Computing, 2018, , 87-95.	0.5	21
10	Verification & validation of an agent-based forest fire simulation model. , 2010, , .		20
11	Game theory models for communication between agents: a review. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	20
12	<i>MetrIntPair</i>-A Novel Accurate Metric for the Comparison of Two Cooperative Multiagent Systems Intelligence Based on Paired Intelligence Measurements. International Journal of Intelligent Systems, 2018, 33, 463-486.	3.3	20
13	Sensing Emergence in Complex Systems. IEEE Sensors Journal, 2011, 11, 2479-2480.	2.4	19
14	Road collisions avoidance using vehicular cyber-physical systems: a taxonomy and review. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	17
15	A new hybrid agent-based modeling &#x00026; simulation decision support system for breast cancer data analysis. , 2009, , .		16
16	Social Network Analysis of trends in the consumer electronics domain. , 2011, , .		11
17	Complex adaptive communication networks and environments: Part 1. Simulation, 2013, 89, 559-561.	1.1	11
18	Review of â€œCiteSpace: A Practical Guide For Mapping Scientific Literatureâ€•by Chaomei Chen. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	11

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19	Variations in power of opinion leaders in online communication networks. Royal Society Open Science, 2018, 5, 180642.	1.1	11
20	Towards social autonomous vehicles: Efficient collision avoidance scheme using Richardson's arms race model. PLoS ONE, 2017, 12, e0186103.	1.1	11
21	Self-organized customized content delivery architecture for ambient assisted environments. , 2008, , .		10
22	Toward a Formal, Visual Framework of Emergent Cognitive Development of Scholars. Cognitive Computation, 2014, 6, 113-124.	3.6	10
23	Enhanced emotion enabled cognitive agent-based rear-end collision avoidance controller for autonomous vehicles. Simulation, 2018, 94, 957-977.	1.1	10
24	Complex adaptive communication networks and environments: Part 2. Simulation, 2013, 89, 787-789.	1.1	9
25	Multidisciplinary applications of complex networks modeling, simulation, visualization, and analysis. Complex Adaptive Systems Modeling, 2013, 1, .	1.6	9
26	Using social network analysis of human aspects for online social network software: a design methodology. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	9
27	Emerging topics in Internet technology: A complex networks approach. Internet Technology Letters, 2018, 1, e41.	1.4	8
28	Cognitive Agent-based Computing-I. SpringerBriefs in Cognitive Computation, 2013, , .	0.1	8
29	Urban Computing and Mobile Devices. IEEE Distributed Systems Online, 2007, 8, 2-2.	0.5	7
30	Self-organized power consumption approximation in the Internet of Things. , 2015, , .		7
31	A formal specification framework for smart grid components. Complex Adaptive Systems Modeling, 2018, 6, .	1.6	7
32	Complex Adaptive Systems. SpringerBriefs in Cognitive Computation, 2013, , 21-32.	0.1	7
33	An Intelligent Self-Organizing Power-Saving Architecture: An Agent-Based Approach. , 2012, , .		6
34	Introduction to the modeling and analysis of complex systems: a review. Complex Adaptive Systems Modeling, 2016, 4, .	1.6	6
35	Steering Angle Prediction Techniques for Autonomous Ground Vehicles: A Review. IEEE Access, 2021, 9, 78567-78585.	2.6	6
36	Enhancing the Shopping Experience. IEEE Pervasive Computing, 2011, 10, 44-47.	1.1	5

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37	Why teach modeling & simulation in schools?. Complex Adaptive Systems Modeling, 2017, 5, .	1.6	5
38	Review of "Exploratory Social Network Analysis with Pajek" by Wouter De Nooy, Andrej Mrvar and Vladimir Batageli. Complex Adaptive Systems Modeling, 2019, 7, .	1.6	5
39	A Unified Framework. SpringerBriefs in Cognitive Computation, 2013, , 15-20.	0.1	5
40	Simulation of the research process. , 2008, , .		4
41	A discrete event system specification (DEVS)-based model of consanguinity. Journal of Theoretical Biology, 2011, 285, 103-112.	0.8	4
42	Towards modeling complex wireless sensor networks using agents and networks: A systematic approach. , 2014, , .		4
43	A Novel Formal Agent-Based Simulation Modeling Framework of an AIDS Complex Adaptive System. International Journal of Agent Technologies and Systems, 2013, 5, 33-53.	0.1	4
44	Emergence of a Snake-Like Structure in Mobile Distributed Agents: An Exploratory Agent-Based Modeling Approach. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	3
45	Towards Agent-Based Model Specification of Smart Grid: A Cognitive Agent-Based Computing Approach. Interdisciplinary Description of Complex Systems, 2019, 17, 546-585.	0.3	3
46	Clinical Decision Support Systems: A Visual Survey. Informatica (Slovenia), 2018, 42, .	0.6	3
47	Eliminating duplication and ensuring file integrity in Multisync: A multiagent system for ubiquitous file synchronization. , 2005, , .		2
48	Augmenting Autonomous Vehicular Communication Using the Appreciation Emotion: A Mamdani Fuzzy Inference System Model. , 2015, , .		2
49	Review of "The Model Thinker" by Scott Page. Complex Adaptive Systems Modeling, 2020, 8, .	1.6	2
50	Spectrum Mobility in Cognitive Radio-Based Vehicular Cyber Physical Networks: A Fuzzy Emotion-Inspired Scheme. , 2015, , .		1
51	Highly modular electronics: Self-Organized Power Hotspot Management in Components. , 2015, , .		1
52	Modeling for a Greener Internet of Things: Carbon Footprint Planning and Allocation: A Tutorial Approach Using Monte Carlo Simulation. , 2015, , .		1
53	Personal vs. know-how contacts: which matter more in wiki elections?. Complex Adaptive Systems Modeling, 2018, 6, .	1.6	1
54	Modeling AIDS Spread in Social Networks. Lecture Notes in Computer Science, 2013, , 361-371.	1.0	1

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55	A Critical Examination of Complex Network File Formats for Bioinformatics Data Sources. , 2012, , .		0
56	The value of systems and complexity sciences for healthcare: a review. Complex Adaptive Systems Modeling, 2017, 5, .	1.6	0
57	Monkeys, trees, and the right abstraction!. Complex Adaptive Systems Modeling, 2018, 6, .	1.6	0
58	Computational intelligence in context of autonomous vehicle modeling: A survey. , 2018, , .		0
59	Modeling CAS. SpringerBriefs in Cognitive Computation, 2013, , 33-53.	0.1	0
60	Applications of multi-agent systems in smart grid: a survey and taxonomy. , 2019, , 111-144.		0
61	Exploratory and validated agent-based modeling levels case study: Internet of Things. , 2019, , 209-238.		0
62	Social networks - a scientometric visual survey. , 2019, , 381-412.		0
63	Demand-response management in smart grid: a survey and future directions. , 2019, , 83-110.		0