Carlos Gershenson

List of Publications by Citations

93 papers	1,318 citations	19 h-index	32 g-index
129 ext. papers	1,629 ext. citations	2.5 avg, IF	5.28 L-index

#	Paper	IF	Citations
93	Wind speed forecasting for wind farms: A method based on support vector regression. *Renewable Energy*, **2016**, 85, 790-809	8.1	218
92	Complexity and information: Measuring emergence, self-organization, and homeostasis at multiple scales. *Complexity*, **2012**, 18, 29-44	1.6	99
91	When Can We Call a System Self-Organizing?. *Lecture Notes in Computer Science*, **2003**, 606-614	0.9	53
90	Why does public transport not arrive on time? The pervasiveness of equal headway instability. *PLoS ONE*, **2009**, 4, e7292	3.7	46
89	Self-organizing traffic lights at multiple-street intersections. *Complexity*, **2012**, 17, 23-39	1.6	41
88	. *IEEE Intelligent Systems*, **2003**, 18, 72-86	4.2	40
87	Guiding the self-organization of random Boolean networks. *Theory in Biosciences*, **2012**, 131, 181-91	1.3	39
86	Living is information processing: from molecules to global systems. *Acta Biotheoretica*, **2013**, 61, 203-22	1.1	36
85	When slower is faster. *Complexity*, **2015**, 21, 9-15	1.6	34
84	Can government be self-organized? A mathematical model of the collective social organization of ancient Teotihuacan, central Mexico. *PLoS ONE*, **2014**, 9, e109966	3.7	34
83	Measuring the Complexity of Self-Organizing Traffic Lights. *Entropy*, **2014**, 16, 2384-2407	2.8	30
82	The Past, Present, and Future of Artificial Life. *Frontiers in Robotics and AI*, **2014**, 1,	2.8	30
81	The Implications of Interactions for Science and Philosophy. *Foundations of Science*, **2013**, 18, 781-790	0.8	28
80	Information Measures of Complexity, Emergence, Self-organization, Homeostasis, and Autopoiesis. *Emergence, Complexity and Computation*, **2014**, 19-51	0.1	28
79	Self-Organizing Traffic Lights: A Realistic Simulation. *Advanced Information and Knowledge Processing*, **2013**, 45-55	0.3	28
78	Self-Organizing Traffic Lights: A Realistic Simulation. *Advanced Information and Knowledge Processing*, **2008**, 41-50	0.3	25
77	Smartocracy: Social Networks for Collective Decision Making **2007**,		25

76	Self-organization leads to supraoptimal performance in public transportation systems. *PLoS ONE*, **2011**, 6, e21469	3.7	22
75	The dynamically extended mind **2013**,		21
74	Life as Thermodynamic Evidence of Algorithmic Structure in Natural Environments. *Entropy*, **2012**, 14, 2173-2191	2.8	19
73	Rank diversity of languages: generic behavior in computational linguistics. *PLoS ONE*, **2015**, 10, e0121898	3.7	18
72	Requisite variety, autopoiesis, and self-organization. *Kybernetes*, **2015**, 44, 866-873	2	18
71	Modular random Boolean networks. *Artificial Life*, **2011**, 17, 331-51	1.4	18
70	Cognitive paradigms: which one is the best?. *Cognitive Systems Research*, **2004**, 5, 135-156	4.8	17
69	Complexity measurement of natural and artificial languages. *Complexity*, **2015**, 20, 25-48	1.6	16
68	Living in living cities. *Artificial Life*, **2013**, 19, 401-20	1.4	14
67	The sigma profile: A formal tool to study organization and its evolution at multiple scales. *Complexity*, **2011**, 16, 37-44	1.6	14
66	The World as Evolving Information **2012**, 100-115		14
65	Deliberative Self-Organizing Traffic Lights with Elementary Cellular Automata. *Complexity*, **2017**, 2017, 1-15	1.6	13
64	A Model of City Traffic Based on Elementary Cellular Automata. *Complex Systems*, **2010**, 19, 305-322	2	13
63	Computing Networks: A General Framework to Contrast Neural and Swarm Cognitions. *Paladyn*, **2010**, 1,	2.3	11
62	Adaptive self-organization vs static optimization. *Kybernetes*, **2012**, 41, 386-403	2	10
61	A Novel Antifragility Measure Based on Satisfaction and Its Application to Random and Biological Boolean Networks. *Complexity*, **2019**, 2019, 1-10	1.6	9
60	Self-Organization and Artificial Life: A Review **2018**,		9
59	Self-Organization and Artificial Life. *Artificial Life*, **2020**, 26, 391-408	1.4	9

58	Generic temporal features of performance rankings in sports and games. *EPJ Data Science*, **2016**, 5,	3.4	9
57	Complexity of lakes in a latitudinal gradient. *Ecological Complexity*, **2017**, 31, 1-20	2.6	8
56	Multimodel agent-based simulation environment for mass-gatherings and pedestrian dynamics. *Future Generation Computer Systems*, **2018**, 79, 155-165	7.5	8
55	A Package for Measuring Emergence, Self-organization, and Complexity Based on Shannon Entropy. *Frontiers in Robotics and AI*, **2017**, 4,	2.8	8
54	Multidisciplinary applications of complex networks modeling, simulation, visualization, and analysis. *Complex Adaptive Systems Modeling*, **2013**, 1,	1.8	8
53	Traffic Games: Modeling Freeway Traffic with Game Theory. *PLoS ONE*, **2016**, 11, e0165381	3.7	8
52	**2016**,		8
51	Towards a standard sampling methodology on online social networks: collecting global trends on Twitter. *Applied Network Science*, **2016**, 1, 3	2.9	7
50	Urban Transfer Entropy across Scales. *PLoS ONE*, **2015**, 10, e0133780	3.7	7
49	Efficient sentinel surveillance strategies for preventing epidemics on networks. *PLoS Computational Biology*, **2019**, 15, e1007517	5	7
48	Anger while driving in Mexico City. *PLoS ONE*, **2019**, 14, e0223048	3.7	6
47	Improving public transportation systems with self-organization: A headway-based model and regulation of passenger alighting and boarding. *PLoS ONE*, **2017**, 12, e0190100	3.7	6
46	Complex networks. *Artificial Life*, **2011**, 17, 259-61	1.4	6
45	Contextual Random Boolean Networks. *Lecture Notes in Computer Science*, **2003**, 615-624	0.9	6
44	Ecosystem antifragility: beyond integrity and resilience. *PeerJ*, **2020**, 8, e8533	3.1	6
43	Modeling adaptive reversible lanes: A cellular automata approach. *PLoS ONE*, **2021**, 16, e0244326	3.7	6
42	From neuroscience to computer science: a topical approach on Twitter. *Journal of Computational Social Science*, **2018**, 1, 187-208	3	5
41	Self-Organizing Urban Transportation Systems **2012**, 269-279		5

40	Measuring the Complexity of Continuous Distributions. *Entropy*, **2016**, 18, 72	2.8	5
39	Measuring the complexity of adaptive peer-to-peer systems. *Peer-to-Peer Networking and Applications*, **2016**, 9, 1031-1046	3.1	4
38	Harnessing the complexity of education with information technology. *Complexity*, **2015**, 20, 13-16	1.6	4
37	Guiding the Self-Organization of Cyber-Physical Systems. *Frontiers in Robotics and AI*, **2020**, 7, 41	2.8	4
36	Rank Dynamics of Word Usage at Multiple Scales. *Frontiers in Physics*, **2018**, 6,	3.9	4
35	Antifragility Predicts the Robustness and Evolvability of Biological Networks through Multi-Class Classification with a Convolutional Neural Network. *Entropy*, **2020**, 22,	2.8	4
34	A robustness approach to the distributed management of traffic intersections. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 11, 4501-4512	3.7	4
33	Improving fail computations in a BOINC-based Desktop Grid. *Open Engineering*, **2017**, 7, 371-378	1.7	3
32	Distributed Management of Traffic Intersections. *Advances in Intelligent Systems and Computing*, **2019**, 56-64	0.4	3
31	Dynamics of ranking.. *Nature Communications*, **2022**, 13, 1646	17.4	3
30	Effects of Antimodularity and Multiscale Influence in Random Boolean Networks. *Complexity*, **2019**, 2019, 1-14	1.6	2
29	Modelling complexity for policy: opportunities and challenges205-220		2
28	Complexity at Large 21.2. *Complexity*, **2015**, 21, 1-8	1.6	2
27	Facing Complexity: Prediction vs. Adaptation. *Understanding Complex Systems*, **2013**, 3-14	0.4	2
26	Philosophy and complexity **2017**, 117-134		2
25	Artificial Societies of Intelligent Agents. *SSRN Electronic Journal*,	1	2
24	A Multilayer Structure Facilitates the Production of Antifragile Systems in Boolean Network Models. *Complexity*, **2019**, 2019, 1-11	1.6	2
23	Boolean Networks and Their Applications in Science and Engineering. *Complexity*, **2020**, 2020, 1-3	1.6	1

22	Rank-frequency distribution of natural languages: A difference of probabilities approach. *Physica A: Statistical Mechanics and Its Applications*, **2019**, 532, 121795	3.3	1
21	What Does Artificial Life Tell Us About Death?. *International Journal of Artificial Life Research*, **2011**, 2, 1-5		1
20	Mechanical Love. Phie Ambo. (2009, Icarus Films.) $390, 52 min.. *Artificial Life*, **2010**, 16, 269-270	1.4	1
19	Action Selection Properties in a Software Simulated Agent. *Lecture Notes in Computer Science*, **2000**, 634-648	0.9	1
18	Representation Development and Behavior Modifiers. *Lecture Notes in Computer Science*, **2004**, 504-513	0.9	1
17	Decoding Road Networks into Ancient Routes: The Case of the Aztec Empire in Mexico. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2013**, 228-233	0.2	1
16	Learning, Social Intelligence and the Turing Test. *Lecture Notes in Computer Science*, **2012**, 182-192	0.9	1
15	Self-organization Promotes the Evolution of Cooperation with Cultural Propagation. *Lecture Notes in Computer Science*, **2014**, 145-150	0.9	1
14	Random Networks with Quantum Boolean Functions. *Mathematics*, **2021**, 9, 792	2.3	1
13	Trajectory Stability in the Traveling Salesman Problem. *Complexity*, **2018**, 2018, 1-8	1.6	1
12	Information and Computation **2013**, 61-69		1
11	The World Health Network: a global citizens' initiative. *Lancet, The*, **2021**, 398, 1567-1568	40	0
10	Measuring Complexity in an Aquatic Ecosystem. *Advances in Intelligent Systems and Computing*, **2014**, 83-89	0.4	0
9	Forecasting of Population Narcotization under the Implementation of a Drug Use Reduction Policy. *Complexity*, **2020**, 2020, 1-14	1.6	
8	Complexity at large19.3. *Complexity*, **2014**, 19, 1-6	1.6	
7	Reinventing the Sacred: A New View of Science, Reason, and Religion. Stuart A. Kauffman. (2008, Basic Books.) $27.. *Artificial Life*, **2009**, 15, 485-487	1.4	
6	Reviving the Living: Meaning Making in Living Systems. Yair Neuman. (2008, Elsevier, Studies in Multidisciplinarity, Vol. 6). $197 (hardbound), 320 pages.. *Artificial Life*, **2011**, 17, 145-146	1.4	
5	Self-Organization and Emergence in Life Sciences. Bernard Feltz, Marc Crommelinck, and Philippe Goujon (Eds.). (2006, Synthese Library Vol. 331, Springer.) Hardcover, 139, $179, 360 pages. *Artificial Life*, **2008**, 14, 239-240	1.4	

List of Publications

4	Live Evolving: Molecules, Mind, and Meaning. Christian De Duve. (2003, Oxford University Press.) Hardback, £25, $39. 358 pages. *Artificial Life*, **2007**, 13, 91-92	1.4
3	What Does Artificial Life Tell Us About Death?17-22	
2	A Model for Combination of External and Internal Stimuli in the Action Selection of an Autonomous Agent. *Lecture Notes in Computer Science*, **2000**, 621-633	0.9
1	Protocol Requirements for Self-organizing Artifacts: Towards an Ambient Intelligence **2011**, 136-143	