Abbe Mowshowitz

List of Publications by Year
in descending order

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69	1,996	393982	243296
papers	citations	h-index	g-index

83	83	83	925
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A history of graph entropy measures. Information Sciences, 2011, 181, 57-78.	4.0	392
2	Entropy and the complexity of graphs: I. An index of the relative complexity of a graph. The Bulletin of Mathematical Biophysics, 1968, 30, 175-204.	0.5	318
3	Virtual organization: A vision of management in the information age. Information Society, 1994, 10, 267-288.	1.7	167
4	Entropy and the Complexity of Graphs Revisited. Entropy, 2012, 14, 559-570.	1.1	144
5	Entropy and the complexity of graphs: II. The information content of digraphs and infinite graphs. The Bulletin of Mathematical Biophysics, 1968, 30, 225-240.	0.5	100
6	Entropy and the complexity of graphs: III. Graphs with prescribed information content. The Bulletin of Mathematical Biophysics, 1968, 30, 387-414.	0.5	78
7	Entropy and the complexity of graphs: IV. Entropy measures and graphical structure. The Bulletin of Mathematical Biophysics, 1968, 30, 533-546.	0.5	78
8	The characteristic polynomial of a graph. Journal of Combinatorial Theory Series B, 1972, 12, 177-193.	0.6	67
9	On the theory of virtual organization. Systems Research and Behavioral Science, 1997, 14, 373-384.	0.9	62
10	Assessing bias in search engines. Information Processing and Management, 2002, 38, 141-156.	5.4	62
11	Measuring search engine bias. Information Processing and Management, 2005, 41, 1193-1205.	5.4	54
12	On approaches to the study of social issues in computing. Communications of the ACM, 1981, 24, 146-155.	3.3	35
13	Generalized graph entropies. Complexity, 2011, 17, 45-50.	0.9	34
14	Experimental studies of stochastic models for the Prisoner's dilemma. Systems Research and Behavioral Science, 1966, 11, 444-458.	0.2	32
15	Inequalities for entropy-based measures of network information content. Applied Mathematics and Computation, 2010, 215, 4263-4271.	1.4	23
16	Connections between Classical and Parametric Network Entropies. PLoS ONE, 2011, 6, e15733.	1.1	23
17	An efficient heuristic approach to detecting graph isomorphism based on combinations of highly discriminating invariants. Advances in Computational Mathematics, 2013, 39, 311-325.	0.8	22
18	Consumer power in the digital society. Communications of the ACM, 2005, 48, 46-51.	3.3	21

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19	Structural Differentiation of Graphs Using Hosoya-Based Indices. PLoS ONE, 2014, 9, e102459.	1.1	19
20	Discrimination power of graph measures based on complex zeros of the partial Hosoya polynomial. Applied Mathematics and Computation, 2015, 250, 352-355.	1.4	18
21	On the market value of information commodities. I. The nature of information and information commodities. Journal of the Association for Information Science and Technology, 1992, 43, 225-232.	1.2	17
22	Hosoya entropy of fullerene graphs. Applied Mathematics and Computation, 2019, 352, 88-98.	1.4	16
23	The Hosoya Entropy of a Graph. Entropy, 2015, 17, 1054-1062.	1.1	15
24	Entropy, Orbits, and Spectra of Graphs. , 0, , 1-22.		14
25	The Hosoya Entropy of Graphs Revisited. Symmetry, 2019, 11, 1013.	1.1	14
26	Bounds on the moduli of polynomial zeros. Applied Mathematics and Computation, 2011, 218, 4128-4137.	1.4	13
27	On Properties of Distance-Based Entropies on Fullerene Graphs. Entropy, 2019, 21, 482.	1.1	13
28	The Orbit-Polynomial: A Novel Measure of Symmetry in Networks. IEEE Access, 2020, 8, 36100-36112.	2.6	12
29	On the market value of information commodities. II. Supply price. Journal of the Association for Information Science and Technology, 1992, 43, 233-241.	1.2	8
30	On the market value of information commodities. III. Demand price. Journal of the Association for Information Science and Technology, 1992, 43, 242-248.	1.2	8
31	Technology as excuse for questionable ethics. AI and Society, 2008, 22, 271-282.	3.1	8
32	Mood Perception Model for Social Robot Based on Facial and Bodily Expression Using a Hidden Markov Model. Journal of Robotics and Mechatronics, 2019, 31, 629-638.	0.5	8
33	Robust Unsupervised Anomaly Detection With Variational Autoencoder in Multivariate Time Series Data. IEEE Access, 2022, 10, 57835-57849.	2.6	8
34	The group and the minimal polynomial of a graph. Journal of Combinatorial Theory Series B, 1980, 29, 293-302.	0.6	7
35	Robot Navigation in Forest Management. Journal of Robotics and Mechatronics, 2018, 30, 223-230.	0.5	7
36	Measuring the complexity of directed graphs: A polynomial-based approach. PLoS ONE, 2019, 14, e0223745.	1.1	7

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37	On the social relations of computers*. Human Systems Management, 1985, 5, 99-110.	0.5	6
38	An efficient hypercube labeling schema for dynamic Peer-to-Peer networks. Journal of Parallel and Distributed Computing, 2017, 102, 186-198.	2.7	6
39	Toward Measuring Network Aesthetics Based on Symmetry. Axioms, 2017, 6, 12.	0.9	4
40	Properties of graph distance measures by means of discrete inequalities. Applied Mathematical Modelling, 2018, 59, 739-749.	2.2	4
41	Labeled trees with unlabeled end-points. Journal of Combinatorial Theory, 1969, 6, 60-64.	0.4	3
42	Increasing internet access and freedoms with IGF participation. IEEE Technology and Society Magazine, 2008, 27, 33-36.	0.6	3
43	And Then There Were Three. Computer, 2009, 42, 108-107.	1.2	3
44	A Note on Distance-Based Entropy of Dendrimers. Axioms, 2019, 8, 98.	0.9	3
45	On the relationship between PageRank and automorphisms of a graph. Information Sciences, 2021, 579, 401-417.	4.0	3
46	The Discrimination Power of Structural SuperIndices. PLoS ONE, 2013, 8, e70551.	1.1	2
47	A Note on Graphs with Prescribed Orbit Structure. Entropy, 2019, 21, 1118.	1.1	2
48	Relations and bounds for the zeros of graph polynomials using vertex orbits. Applied Mathematics and Computation, 2020, 380, 125239.	1.4	2
49	Relationships between symmetry-based graph measures. Information Sciences, 2021, 581, 291-303.	4.0	2
50	Autoencoder with Spiking in Frequency Domain for Anomaly Detection of Uncertainty Event. Journal of Robotics, Networking and Artificial Life, 2020, 6, 231.	0.2	2
51	Information as a Commodity: Assessment of Market Value. Advances in Computers, 1994, 38, 247-316.	1.2	1
52	Reply to Walsham's Critique. Information Society, 1994, 10, 293-294.	1.7	1
53	Public vs. private interest on the internet. Communications of the ACM, 2007, 50, 23-25.	3.3	1
54	A case study of cracks in the scientific enterprise: Reinvention of informationâ€theoretic measures for graphs. Complexity, 2016, 21, 10-14.	0.9	1

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55	A calculus for measuring the elegance of abstract graphs. Applied Mathematics and Computation, 2018, 320, 142-148.	1.4	1
56	On efficient network similarity measures. Applied Mathematics and Computation, 2019, 362, 124521.	1.4	1
57	Anomaly Detection in Time Series Data Using Support Vector Machines. Proceedings of International Conference on Artificial Life and Robotics, 2021, 26, 581-587.	0.1	1
58	Development of LiDAR Based Navigation System for Automation of Tree Harvesting Process. Proceedings of International Conference on Artificial Life and Robotics, 2021, 26, 469-471.	0.1	1
59	On the theory of virtual organization. Systems Research and Behavioral Science, 1997, 14, 373-384.	0.9	1
60	ANALYZING SEARCH ENGINE BIAS. , 2001, , .		1
61	Anomaly Detection using Autoencoder with Gramian Angular Summation Field in Multivariate Time Series Data. Proceedings of International Conference on Artificial Life and Robotics, 2022, 27, 579-583.	0.1	1
62	Knowledge-intensive systems in the social service agency: Anticipated impacts on the organisation. AI and Society, 1995, 9, 161-183.	3.1	0
63	A case study of cracks in the scientific enterprise: Response to the comments. Complexity, 2016, 21, 20-22.	0.9	0
64	Development of Navigation System in Field Robot for Forest Management. , 2018, , .		0
65	Robot Navigation in Forest Management Based on Graph. Proceedings of International Conference on Artificial Life and Robotics, 2019, 24, 505-508.	0.1	0
66	Autoencoder with Spiking in Frequency Domain for Anomaly Detection of Uncertainty Event. Proceedings of International Conference on Artificial Life and Robotics, 2020, 25, 245-248.	0.1	0
67	Autonomous Robotics Packaging Ready Meal in Conveyor Production Line. Proceedings of International Conference on Artificial Life and Robotics, 2022, 27, 584-588.	0.1	0
68	Online Deep Reinforcement Learning on Assigned Weight Spaghetti Grasping in One Time using Soft Actor-Critic. Proceedings of International Conference on Artificial Life and Robotics, 2022, 27, 554-558.	0.1	0
69	Weight estimation for noodle products in food layout of a home replacement meal. Proceedings of International Conference on Artificial Life and Robotics, 2022, 27, 564-568.	0.1	0