Janusz A HoÅ‚yst

List of Publications by Year
in descending order

124 papers	3,338 citations	172457 29 h-index	168389 53 g-index
128 all docs	128 docs citations	128 times ranked	2333 citing authors

#	Article	IF	Citations
1	Hierarchy Depth in Directed Networks. Entropy, 2022, 24, 252.	2.2	1
2	Transitions between polarization and radicalization in a temporal bilayer echo-chamber model. Physical Review E, 2022, 105, 024125.	2.1	7
3	Comparison of observer based methods for source localisation in complex networks. Scientific Reports, 2022, 12, 5079.	3.3	4
4	Countering misinformation: A multidisciplinary approach. Big Data and Society, 2021, 8, 205395172110138.	4.5	29
5	Discovering hidden layers in quantum graphs. Physical Review E, 2021, 104, 034311.	2.1	0
6	Impact of interactions between layers on source localization in multilayer networks. Physica A: Statistical Mechanics and Its Applications, 2021, 582, 126238.	2.6	7
7	Enhancing Maximum Likelihood Estimation of Infection Source Localization. Springer Proceedings in Complexity, 2021, , 21-41.	0.3	1
8	Homophily Based on Few Attributes Can Impede Structural Balance. Physical Review Letters, 2020, 125, 078302.	7.8	27
9	Spontaneous symmetry breaking of active phase in coevolving nonlinear voter model. Physical Review E, 2020, 102, 042313.	2.1	5
10	A calibrated measure to compare fluctuations of different entities across timescales. Scientific Reports, 2020, 10, 20673.	3.3	4
11	Why understanding multiplex social network structuring processes will help us better understand the evolution of human behavior. Evolutionary Anthropology, 2020, 29, 102-107.	3.4	18
12	Optimizing sensors placement in complex networks for localization of hidden signal source: A review. Future Generation Computer Systems, 2020, 112, 1070-1092.	7.5	19
13	Optimizing Spatial Accessibility of Company Branches Network with Constraints. Lecture Notes in Computer Science, 2019, , 332-345.	1.3	2
14	Modeling of temporal fluctuation scaling in online news network with independent cascade model. Physica A: Statistical Mechanics and Its Applications, 2019, 523, 129-144.	2.6	8
15	Multiple propagation paths enhance locating the source of diffusion in complex networks. Physica A: Statistical Mechanics and Its Applications, 2019, 519, 34-41.	2.6	14
16	Diffusion on hierarchical systems of weakly-coupled networks. Physica A: Statistical Mechanics and Its Applications, 2019, 513, 675-686.	2.6	8
17	Fast and accurate detection of spread source in large complex networks. Scientific Reports, 2018, 8, 2508.	3.3	54
18	Categorical and Geographical Separation in Science. Scientific Reports, 2018, 8, 8253.	3.3	5

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19	Hierarchical partitions of social networks between rivaling leaders. PLoS ONE, 2018, 13, e0193715.	2.5	2
20	Hybrid CPU-GPU Simulation of Hierarchical Adaptive Random Boolean Networks. Lecture Notes in Computer Science, 2018, , 403-414.	1.3	0
21	Coupling of link- and node-ordering in the coevolving voter model. Physical Review E, 2017, 96, 042306.	2.1	12
22	Destructive influence of interlayer coupling on Heider balance in bilayer networks. Scientific Reports, 2017, 7, 16047.	3.3	21
23	How Online Emotions Influence Community Life. Understanding Complex Systems, 2017, , 159-185.	0.6	1
24	Zooming in: Studying Collective Emotions with Interactive Affective Systems. Understanding Complex Systems, 2017, , 279-304.	0.6	4
25	Detection and Modeling of Collective Emotions in Online Data. Understanding Complex Systems, 2017, , 137-158.	0.6	2
26	Parallel Simulation of Adaptive Random Boolean Networks. Procedia Computer Science, 2016, 101, 35-44.	2.0	2
27	Unstable network fragmentation in co-evolution of Potts spins and system topology. Physica A: Statistical Mechanics and Its Applications, 2016, 460, 1-15.	2.6	9
28	Temporal Taylorâ€™s scaling of facial electromyography and electrodermal activity in the course of emotional stimulation. Chaos, Solitons and Fractals, 2016, 90, 91-100.	5.1	7
29	Coevolution of information processing and topology in hierarchical adaptive random Boolean networks. European Physical Journal B, 2016, 89, 1.	1.5	4
30	Models of random graph hierarchies. European Physical Journal B, 2015, 88, 1.	1.5	1
31	Information slows down hierarchy growth. Physical Review E, 2014, 89, 062810.	2.1	3
32	Finite size induces crossover temperature in growing spin chains. Physical Review E, 2014, 89, 012105.	2.1	2
33	Collective Emotions Online. Lecture Notes in Social Networks, 2014, , 59-74.	0.1	5
34	Stochastic resonance for information flows on hierarchical networks. European Physical Journal: Special Topics, 2013, 222, 1335-1345.	2.6	7
35	Entropy growth in emotional online dialogues. Journal of Physics: Conference Series, 2013, 410, 012096.	0.4	2
36	Transition due to preferential cluster growth of collective emotions in online communities. Physical Review E, 2013, 87, 022808.	2.1	5

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37	ENTROPY-GROWTH-BASED MODEL OF EMOTIONALLY CHARGED ONLINE DIALOGUES. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1350026.	1.4	12
38	MODELING OF INTERNET INFLUENCE ON GROUP EMOTION. International Journal of Modern Physics C, 2012, 23, 1250020.	1.7	5
39	Ising Model on Connected Complex Networks. , 2012, , 167-200.		3
40	Comprehensive analysis of market conditions in the foreign exchange market. Journal of Economic Interaction and Coordination, 2012, 7, 167-179.	0.7	6
41	Analytical approach to the model of scientific revolutions. Physical Review E, 2012, 85, 066126.	2.1	8
42	Modeling defaults of companies in multi-stage supply chain networks. International Journal of Production Economics, 2012, 135, 14-23.	8.9	89
43	CYBEREMOTIONS â€“ Collective Emotions in Cyberspace. Procedia Computer Science, 2011, 7, 221-222.	2.0	4
44	The Lehman Brothers effect and bankruptcy cascades. European Physical Journal B, 2011, 82, 257-269.	1.5	30
45	Negative emotions boost user activity at BBC forum. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2936-2944.	2.6	128
46	Collective Emotions Online and Their Influence on Community Life. PLoS ONE, 2011, 6, e22207.	2.5	148
47	Fluctuation scaling of quotation activities in the foreign exchange market. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2793-2804.	2.6	13
48	FLOW OF EMOTIONAL MESSAGES IN ARTIFICIAL SOCIAL NETWORKS. International Journal of Modern Physics C, 2010, 21, 593-602.	1.7	10
49	SCALING OF INTERNODE DISTANCES IN WEIGHTED COMPLEX NETWORKS. International Journal of Modern Physics C, 2010, 21, 731-739.	1.7	2
50	External bias in the model of isolation of communities. Physical Review E, 2010, 82, 057101.	2.1	5
51	Scaling of human behavior during portal browsing. Physical Review E, 2009, 80, 066122.	2.1	40
52	Nonequilibrium phase transition due to isolation of communities. Physical Review E, 2009, 80, 036103.	2.1	23
53	Bistable-monostable transition in the Ising model on two connected complex networks. Physical Review E, 2009, 80, 031110.	2.1	22
54	Similarity, Clustering, and Scaling Analyses for the Foreign Exchange Market. Progress of Theoretical Physics Supplement, 2009, 179, 38-50.	0.1	2

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55	Correlations in commodity markets. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1621-1630.	2.6	74
56	Collective firm bankruptcies and phase transition in rating dynamics. European Physical Journal B, 2009, 71, 461-466.	1.5	11
57	Statistical properties of short term price trends in high frequency stock market data. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 1218-1224.	2.6	8
58	Characteristic periodicities of collective behavior at the foreign exchange market. European Physical Journal B, 2008, 62, 373-380.	1.5	8
59	Kauffman Boolean model in undirected scale-free networks. Physical Review E, 2008, 77, 036119.	2.1	6
60	Path Length Scaling and Discrete Effects in Complex Networks. Understanding Complex Systems, 2008, , 369-388.	0.6	0
61	Analysis of scientific productivity using maximum entropy principle and fluctuation-dissipation theorem. Physical Review E, 2007, 75, 026103.	2.1	17
62	Log-periodic oscillations due to discrete effects in complex networks. Physical Review E, 2007, 75, 066102.	2.1	2
63	Thermodynamic forces, flows, and Onsager coefficients in complex networks. Physical Review E, 2007, 76, 061106.	2.1	11
64	Networks of companies and branches in Poland. Physica A: Statistical Mechanics and Its Applications, 2007, 383, 134-138.	2.6	26
65	Risk evaluation with enhanced covariance matrix. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 468-474.	2.6	3
66	How random is your heart beat?. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 439-447.	2.6	7
67	Microscopic explanation of non-Debye relaxation for heat transfer. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 571-576.	2.6	2
68	Phase transitions in social networks. European Physical Journal B, 2007, 59, 133-139.	1.5	29
69	Ising model on two connected Barabasi-Albert networks. Physical Review E, 2006, 74, 011122.	2.1	32
70	Voter model on Sierpinski fractals. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 338-344.	2.6	8
71	NOISE ESTIMATION BY USE OF NEIGHBORING DISTANCES IN TAKENS SPACE AND ITS APPLICATIONS TO STOCK MARKET DATA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 1865-1869.	1.7	6
72	Self-organized criticality and coevolution of network structure and dynamics. Physical Review E, 2006, 73, 046117.	2.1	31

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73	Fluctuation-dissipation relations in complex networks. Physical Review E, 2006, 73, 016108.	2.1	21
74	FERROMAGNETIC FLUID AS A MODEL OF SOCIAL IMPACT. International Journal of Modern Physics C, 2006, 17, 1227-1235.	1.7	6
75	Estimation of a noise level using coarse-grained entropy of experimental time series of internal pressure in a combustion engine. Chaos, Solitons and Fractals, 2005, 23, 1695-1701.	5.1	16
76	Scaling of distances in correlated complex networks. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 167-174.	2.6	13
77	Anti-deterministic behaviour of discrete systems that are less predictable than noise. Physica A: Statistical Mechanics and Its Applications, 2005, 350, 189-198.	2.6	3
78	Universal dependence of distances on nodes degrees in complex networks. AIP Conference Proceedings, 2005, , .	0.4	1
79	HOW INDIVIDUALS LEARN TO TAKE TURNS: EMERGENCE OF ALTERNATING COOPERATION IN A CONGESTION GAME AND THE PRISONER'S DILEMMA. International Journal of Modeling, Simulation, and Scientific Computing, 2005, 08, 87-116.	1.4	104
80	How to calculate the main characteristics of random uncorrelated networks. AIP Conference Proceedings, 2005, , .	0.4	5
81	Statistical analysis of 22 public transport networks in Poland. Physical Review E, 2005, 72, 046127.	2.1	293
82	Universal scaling of distances in complex networks. Physical Review E, 2005, 72, 026108.	2.1	38
83	Supremacy distribution in evolving networks. Physical Review E, 2004, 70, 046119.	2.1	5
84	Average path length in random networks. Physical Review E, 2004, 70, 056110.	2.1	219
85	FRACTAL SPECTROSCOPY BY NOISE-FREE STOCHASTIC MULTIRESONANCE AT HIGHER HARMONICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 141-159.	1.7	2
86	Investment strategy due to the minimization of portfolio noise level by observations of coarse-grained entropy. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 284-288.	2.6	9
87	Stochastic resonance as a model for financial market crashes and bubbles. Physica A: Statistical Mechanics and Its Applications, 2003, 317, 597-608.	2.6	61
88	The effect of Kapitza pendulum and price equilibrium. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 388-395.	2.6	9
89	Log-periodic oscillations and noise-free stochastic multiresonance due to self-similarity of fractals. Chaos, Solitons and Fractals, 2003, 18, 89-96.	5.1	13
90	Mean-field theory for clustering coefficients in BarabÃ¡si-Albert networks. Physical Review E, 2003, 68, 046126.	2.1	65

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91	Noise-level estimation of time series using coarse-grained entropy. Physical Review E, 2003, 67, 046218.	2.1	45
92	Linear stability analysis in a liquid layer with a surface velocity gradient. Physical Review E, 2003, 67, 066311.	2.1	1
93	SELF-ORGANIZED CRITICALITY IN A MODEL OF COLLECTIVE BANK BANKRUPTCIES. International Journal of Modern Physics C, 2002, 13, 333-341.	1.7	31
94	Ferromagnetic phase transition in BarabÃ¡siâ€“Albert networks. Physica A: Statistical Mechanics and Its Applications, 2002, 310, 260-266.	2.6	187
95	Higher order clustering coefficients in BarabÃ¡siâ€“Albert networks. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 688-694.	2.6	59
96	A simple model of bank bankruptcies. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 198-204.	2.6	43
97	SOCIAL IMPACT MODELS OF OPINION DYNAMICS. , 2001, , 253-273.		94
98	Phase transitions in social impact models of opinion formation. Physica A: Statistical Mechanics and Its Applications, 2000, 285, 199-210.	2.6	116
99	Chaos control in economical model by time-delayed feedback method. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 587-598.	2.6	121
100	Phase transitions as a persistent feature of groups with leaders in models of opinion formation. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 631-643.	2.6	78
101	Influence of stable Floquet exponents on time-delayed feedback control. Physical Review E, 2000, 61, 5045-5056.	2.1	46
102	Anomalous oscillations of average transient lifetimes near crises. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 254, 53-58.	2.1	12
103	Limits of time-delayed feedback control. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 254, 158-164.	2.1	83
104	Opinion formation model with strong leader and external impact: a mean field approach. Physica A: Statistical Mechanics and Its Applications, 1999, 269, 511-526.	2.6	75
105	Destructive role of competition and noise for control of microeconomical chaosâ˜†. Chaos, Solitons and Fractals, 1997, 8, 1489-1505.	5.1	10
106	Phase transitions and hysteresis in a cellular automata-based model of opinion formation. Journal of Statistical Physics, 1996, 84, 169-189.	1.2	50
107	How to control a chaotic economy?. Journal of Evolutionary Economics, 1996, 6, 31-42.	1.7	55
108	Internal oscillations of solitons in (CH3)4NMnCl3above and belowTN. Physical Review B, 1995, 52, 6424-6430.	3.2	9

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109	Comment on â€˜â€˜Oscillation mode and â€˜nonlinearâ€™ radiation of the double sine-Gordon 2Ï€ kinkâ€™â€™. Physical Review E, 1995, 52, 4583-4584.	2.1	4
110	Simple model for dry friction. Physical Review B, 1994, 49, 3831-3838.	3.2	58
111	Dissipative dynamics of quantum spin systems. Physical Review A, 1992, 45, 6180-6184.	2.5	10
112	Effect of transverse spin-waves on the density of soliton pairs in TMMC below TN. Solid State Communications, 1991, 79, 703-705.	1.9	2
113	Experimental Evidence for Soliton Pairing in TMMC below T _N. Europhysics Letters, 1991, 14, 383-388.	2.0	14
114	Soliton dynamics in the uniaxially anisotropic quantum ferromagnetic chain. Journal of Physics Condensed Matter, 1990, 2, 1869-1883.	1.8	9
115	On spin-squeezed states and their application to semi-classical kink dynamics in magnetic chains. Journal of Physics Condensed Matter, 1989, 1, 3083-3094.	1.8	4
116	Nuclear spin-lattice relaxation due to soliton pairs in TMMC below TN. Solid State Communications, 1989, 72, 385-387.	1.9	14
117	Theory of the soliton-induced phase transition in quasi-one-dimensional magnets. Physical Review B, 1988, 38, 6975-6984.	3.2	10
118	Stationary Motion of Solitary Waves in a One-Dimensional Driven Damped Ferromagnet. Physica Scripta, 1987, 35, 67-68.	2.5	0
119	Solitary waves in one-dimensional damped systems. Physical Review B, 1987, 35, 3643-3646.	3.2	32
120	Very peculiar properties of kinks in a driven damped anisotropic spin chain. Physical Review B, 1986, 33, 3492-3498.	3.2	10
121	Dynamics of the classical Heisenberg ferromagnet. Physical Review B, 1986, 34, 1937-1939.	3.2	10
122	Phase transition induced by pairing of pi -kinks in weakly coupled magnetic sine-Gordon chains. Journal of Physics C: Solid State Physics, 1985, 18, 2411-2418.	1.5	11
123	Thermodynamics of the magnetic double-sine-Gordon chain in the region of topological instability. Physical Review B, 1984, 30, 5356-5358.	3.2	6
124	Soliton-induced magnetic phase transition in three-dimensional systems of weakly coupled magnetic chains with local anisotropy. Physical Review B, 1983, 28, 4062-4063.	3.2	11