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	Statistical analysis of 22 public transport networks in Poland. Physical Review E, 2005, 72, 046127.	2.1	293
2	Average path length in random networks. Physical Review E, 2004, 70, 056110.	2.1	219
3	Ferromagnetic phase transition in BarabÃ¡siâ€“Albert networks. Physica A: Statistical Mechanics and Its Applications, 2002, 310, 260-266.	2.6	187
4	Collective Emotions Online and Their Influence on Community Life. PLoS ONE, 2011, 6, e22207.	2.5	148
5	Negative emotions boost user activity at BBC forum. Physica A: Statistical Mechanics and Its Applications, 2011, 390, 2936-2944.	2.6	128
6	Chaos control in economical model by time-delayed feedback method. Physica A: Statistical Mechanics and Its Applications, 2000, 287, 587-598.	2.6	121
7	Phase transitions in social impact models of opinion formation. Physica A: Statistical Mechanics and Its Applications, 2000, 285, 199-210.	2.6	116
8	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
9	SOCIAL IMPACT MODELS OF OPINION DYNAMICS. , 2001, , 253-273.		94
10	Modeling defaults of companies in multi-stage supply chain networks. International Journal of Production Economics, 2012, 135, 14-23.	8.9	89
11	Limits of time-delayed feedback control. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 254, 158-164.	2.1	83
12	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
13	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
14	Correlations in commodity markets. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1621-1630.	2.6	74
15	Mean-field theory for clustering coefficients in BarabÃ¡si-Albert networks. Physical Review E, 2003, 68, 046126.	2.1	65
16	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
17	Higher order clustering coefficients in BarabÃ¡siâ€“Albert networks. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 688-694.	2.6	59
18	Simple model for dry friction. Physical Review B, 1994, 49, 3831-3838.	3.2	58

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19	How to control a chaotic economy?. Journal of Evolutionary Economics, 1996, 6, 31-42.	1.7	55
20	Fast and accurate detection of spread source in large complex networks. Scientific Reports, 2018, 8, 2508.	3.3	54
21	Phase transitions and hysteresis in a cellular automata-based model of opinion formation. Journal of Statistical Physics, 1996, 84, 169-189.	1.2	50
22	Influence of stable Floquet exponents on time-delayed feedback control. Physical Review E, 2000, 61, 5045-5056.	2.1	46
23	Noise-level estimation of time series using coarse-grained entropy. Physical Review E, 2003, 67, 046218.	2.1	45
24	A simple model of bank bankruptcies. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 198-204.	2.6	43
25	Scaling of human behavior during portal browsing. Physical Review E, 2009, 80, 066122.	2.1	40
26	Universal scaling of distances in complex networks. Physical Review E, 2005, 72, 026108.	2.1	38
27	Solitary waves in one-dimensional damped systems. Physical Review B, 1987, 35, 3643-3646.	3.2	32
28	Ising model on two connected Barabasi-Albert networks. Physical Review E, 2006, 74, 011122.	2.1	32
29	SELF-ORGANIZED CRITICALITY IN A MODEL OF COLLECTIVE BANK BANKRUPTCIES. International Journal of Modern Physics C, 2002, 13, 333-341.	1.7	31
30	Self-organized criticality and coevolution of network structure and dynamics. Physical Review E, 2006, 73, 046117.	2.1	31
31	The Lehman Brothers effect and bankruptcy cascades. European Physical Journal B, 2011, 82, 257-269.	1.5	30
32	Phase transitions in social networks. European Physical Journal B, 2007, 59, 133-139.	1.5	29
33	Countering misinformation: A multidisciplinary approach. Big Data and Society, 2021, 8, 205395172110138.	4.5	29
34	Homophily Based on Few Attributes Can Impede Structural Balance. Physical Review Letters, 2020, 125, 078302.	7.8	27
35	Networks of companies and branches in Poland. Physica A: Statistical Mechanics and Its Applications, 2007, 383, 134-138.	2.6	26
36	Nonequilibrium phase transition due to isolation of communities. Physical Review E, 2009, 80, 036103.	2.1	23

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37	Bistable-monostable transition in the Ising model on two connected complex networks. Physical Review E, 2009, 80, 031110.	2.1	22
38	Fluctuation-dissipation relations in complex networks. Physical Review E, 2006, 73, 016108.	2.1	21
39	Destructive influence of interlayer coupling on Heider balance in bilayer networks. Scientific Reports, 2017, 7, 16047.	3.3	21
40	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
41	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
42	Analysis of scientific productivity using maximum entropy principle and fluctuation-dissipation theorem. Physical Review E, 2007, 75, 026103.	2.1	17
43	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
44	Nuclear spin-lattice relaxation due to soliton pairs in TMMC below TN. Solid State Communications, 1989, 72, 385-387.	1.9	14
45	Experimental Evidence for Soliton Pairing in TMMC below T _N. Europhysics Letters, 1991, 14, 383-388.	2.0	14
46	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
47	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
48	Scaling of distances in correlated complex networks. Physica A: Statistical Mechanics and Its Applications, 2005, 351, 167-174.	2.6	13
49	Fluctuation scaling of quotation activities in the foreign exchange market. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 2793-2804.	2.6	13
50	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
51	ENTROPY-GROWTH-BASED MODEL OF EMOTIONALLY CHARGED ONLINE DIALOGUES. International Journal of Modeling, Simulation, and Scientific Computing, 2013, 16, 1350026.	1.4	12
52	Coupling of link- and node-ordering in the coevolving voter model. Physical Review E, 2017, 96, 042306.	2.1	12
53	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
54	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

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55	Thermodynamic forces, flows, and Onsager coefficients in complex networks. Physical Review E, 2007, 76, 061106.	2.1	11
56	Collective firm bankruptcies and phase transition in rating dynamics. European Physical Journal B, 2009, 71, 461-466.	1.5	11
57	Very peculiar properties of kinks in a driven damped anisotropic spin chain. Physical Review B, 1986, 33, 3492-3498.	3.2	10
58	Dynamics of the classical Heisenberg ferromagnet. Physical Review B, 1986, 34, 1937-1939.	3.2	10
59	Theory of the soliton-induced phase transition in quasi-one-dimensional magnets. Physical Review B, 1988, 38, 6975-6984.	3.2	10
60	Dissipative dynamics of quantum spin systems. Physical Review A, 1992, 45, 6180-6184.	2.5	10
61	Destructive role of competition and noise for control of microeconomical chaosâ˜†. Chaos, Solitons and Fractals, 1997, 8, 1489-1505.	5.1	10
62	FLOW OF EMOTIONAL MESSAGES IN ARTIFICIAL SOCIAL NETWORKS. International Journal of Modern Physics C, 2010, 21, 593-602.	1.7	10
63	Soliton dynamics in the uniaxially anisotropic quantum ferromagnetic chain. Journal of Physics Condensed Matter, 1990, 2, 1869-1883.	1.8	9
64	Internal oscillations of solitons in (CH3)4NMnCl3above and belowTN. Physical Review B, 1995, 52, 6424-6430.	3.2	9
65	The effect of Kapitza pendulum and price equilibrium. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 388-395.	2.6	9
66	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
67	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
68	Voter model on Sierpinski fractals. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 338-344.	2.6	8
69	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
70	Characteristic periodicities of collective behavior at the foreign exchange market. European Physical Journal B, 2008, 62, 373-380.	1.5	8
71	Analytical approach to the model of scientific revolutions. Physical Review E, 2012, 85, 066126.	2.1	8
72	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

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73	Diffusion on hierarchical systems of weakly-coupled networks. Physica A: Statistical Mechanics and Its Applications, 2019, 513, 675-686.	2.6	8
74	How random is your heart beat?. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 439-447.	2.6	7
75	Stochastic resonance for information flows on hierarchical networks. European Physical Journal: Special Topics, 2013, 222, 1335-1345.	2.6	7
76	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
77	Impact of interactions between layers on source localization in multilayer networks. Physica A: Statistical Mechanics and Its Applications, 2021, 582, 126238.	2.6	7
78	Transitions between polarization and radicalization in a temporal bilayer echo-chamber model. Physical Review E, 2022, 105, 024125.	2.1	7
79	Thermodynamics of the magnetic double-sine-Gordon chain in the region of topological instability. Physical Review B, 1984, 30, 5356-5358.	3.2	6
80	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
81	FERROMAGNETIC FLUID AS A MODEL OF SOCIAL IMPACT. International Journal of Modern Physics C, 2006, 17, 1227-1235.	1.7	6
82	Kauffman Boolean model in undirected scale-free networks. Physical Review E, 2008, 77, 036119.	2.1	6
83	Comprehensive analysis of market conditions in the foreign exchange market. Journal of Economic Interaction and Coordination, 2012, 7, 167-179.	0.7	6
84	Supremacy distribution in evolving networks. Physical Review E, 2004, 70, 046119.	2.1	5
85	How to calculate the main characteristics of random uncorrelated networks. AIP Conference Proceedings, 2005, , .	0.4	5
86	External bias in the model of isolation of communities. Physical Review E, 2010, 82, 057101.	2.1	5
87	MODELING OF INTERNET INFLUENCE ON GROUP EMOTION. International Journal of Modern Physics C, 2012, 23, 1250020.	1.7	5
88	Transition due to preferential cluster growth of collective emotions in online communities. Physical Review E, 2013, 87, 022808.	2.1	5
89	Categorical and Geographical Separation in Science. Scientific Reports, 2018, 8, 8253.	3.3	5
90	Spontaneous symmetry breaking of active phase in coevolving nonlinear voter model. Physical Review E, 2020, 102, 042313.	2.1	5

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91	Collective Emotions Online. Lecture Notes in Social Networks, 2014, , 59-74.	0.1	5
92	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
93	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
94	CYBEREMOTIONS â€“ Collective Emotions in Cyberspace. Procedia Computer Science, 2011, 7, 221-222.	2.0	4
95	Coevolution of information processing and topology in hierarchical adaptive random Boolean networks. European Physical Journal B, 2016, 89, 1.	1.5	4
96	A calibrated measure to compare fluctuations of different entities across timescales. Scientific Reports, 2020, 10, 20673.	3.3	4
97	Zooming in: Studying Collective Emotions with Interactive Affective Systems. Understanding Complex Systems, 2017, , 279-304.	0.6	4
98	Comparison of observer based methods for source localisation in complex networks. Scientific Reports, 2022, 12, 5079.	3.3	4
99	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
100	Risk evaluation with enhanced covariance matrix. Physica A: Statistical Mechanics and Its Applications, 2007, 384, 468-474.	2.6	3
101	Ising Model on Connected Complex Networks. , 2012, , 167-200.		3
102	Information slows down hierarchy growth. Physical Review E, 2014, 89, 062810.	2.1	3
103	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
104	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
105	Log-periodic oscillations due to discrete effects in complex networks. Physical Review E, 2007, 75, 066102.	2.1	2
106	Microscopic explanation of non-Debye relaxation for heat transfer. Physica A: Statistical Mechanics and Its Applications, 2007, 375, 571-576.	2.6	2
107	Similarity, Clustering, and Scaling Analyses for the Foreign Exchange Market. Progress of Theoretical Physics Supplement, 2009, 179, 38-50.	0.1	2
108	SCALING OF INTERNODE DISTANCES IN WEIGHTED COMPLEX NETWORKS. International Journal of Modern Physics C, 2010, 21, 731-739.	1.7	2

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109	Entropy growth in emotional online dialogues. Journal of Physics: Conference Series, 2013, 410, 012096.	0.4	2
110	Finite size induces crossover temperature in growing spin chains. Physical Review E, 2014, 89, 012105.	2.1	2
111	Parallel Simulation of Adaptive Random Boolean Networks. Procedia Computer Science, 2016, 101, 35-44.	2.0	2
112	Optimizing Spatial Accessibility of Company Branches Network with Constraints. Lecture Notes in Computer Science, 2019, , 332-345.	1.3	2
113	Detection and Modeling of Collective Emotions in Online Data. Understanding Complex Systems, 2017, , 137-158.	0.6	2
114	Hierarchical partitions of social networks between rivaling leaders. PLoS ONE, 2018, 13, e0193715.	2.5	2
115	Linear stability analysis in a liquid layer with a surface velocity gradient. Physical Review E, 2003, 67, 066311.	2.1	1
116	Universal dependence of distances on nodes degrees in complex networks. AIP Conference Proceedings, 2005, , .	0.4	1
117	Models of random graph hierarchies. European Physical Journal B, 2015, 88, 1.	1.5	1
118	How Online Emotions Influence Community Life. Understanding Complex Systems, 2017, , 159-185.	0.6	1
119	Enhancing Maximum Likelihood Estimation of Infection Source Localization. Springer Proceedings in Complexity, 2021, , 21-41.	0.3	1
120	Hierarchy Depth in Directed Networks. Entropy, 2022, 24, 252.	2.2	1
121	Stationary Motion of Solitary Waves in a One-Dimensional Driven Damped Ferromagnet. Physica Scripta, 1987, 35, 67-68.	2.5	0
122	Discovering hidden layers in quantum graphs. Physical Review E, 2021, 104, 034311.	2.1	0
123	Path Length Scaling and Discrete Effects in Complex Networks. Understanding Complex Systems, 2008, , 369-388.	0.6	0
124	Hybrid CPU-GPU Simulation of Hierarchical Adaptive Random Boolean Networks. Lecture Notes in Computer Science, 2018, , 403-414.	1.3	0