Osame Kinouchi

List of Publications by Year
in descending order

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68 papers	2,575 citations	279798 23 h-index	197818 49 g-index
70 all docs	70 docs citations	70 times ranked	2079 citing authors

#	Article	IF	Citations
1	Optimal dynamical range of excitable networks at criticality. Nature Physics, 2006, 2, 348-351.	16.7	673
2	Is it possible to compare researchers with different scientific interests?. Scientometrics, 2006, 68, 179-189.	3.0	416
3	Speech Graphs Provide a Quantitative Measure of Thought Disorder in Psychosis. PLoS ONE, 2012, 7, e34928.	2.5	173
4	Optimal generalization in perceptions. Journal of Physics A, 1992, 25, 6243-6250.	1.6	119
5	Deterministic Walks in Random Media. Physical Review Letters, 2001, 87, 010603.	7.8	68
6	Phase transitions and self-organized criticality in networks of stochastic spiking neurons. Scientific Reports, 2016, 6, 35831.	3.3	65
7	A brief history of excitable map-based neurons and neural networks. Journal of Neuroscience Methods, 2013, 220, 116-130.	2.5	62
8	Physics of psychophysics: Stevens and Weber-Fechner laws are transfer functions of excitable media. Physical Review E, 2002, 65, 060901.	2.1	60
9	Active Dendrites Enhance Neuronal Dynamic Range. PLoS Computational Biology, 2009, 5, e1000402.	3.2	53
10	Thesaurus as a complex network. Physica A: Statistical Mechanics and Its Applications, 2004, 344, 530-536.	2.6	45
11	Deterministic walks in random networks: an application to thesaurus graphs. Physica A: Statistical Mechanics and Its Applications, 2002, 315, 665-676.	2.6	42
12	Robustness of scale invariance in models with self-organized criticality. Physical Review E, 1999, 59, 4964-4969.	2.1	37
13	The non-equilibrium nature of culinary evolution. New Journal of Physics, 2008, 10, 073020.	2.9	35
14	Can dynamical synapses produce true self-organized criticality?. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P06004.	2.3	34
15	Stochastic oscillations and dragon king avalanches in self-organized quasi-critical systems. Scientific Reports, 2019, 9, 3874.	3.3	34
16	Synaptic balance due to homeostatically self-organized quasicritical dynamics. Physical Review Research, 2020, 2, .	3.6	34
17	MODELING NEURONS BY SIMPLE MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 2343-2360.	1.7	31
18	Single-neuron criticality optimizes analog dendritic computation. Scientific Reports, 2013, 3, 3222.	3.3	30

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19	Lower bounds on generalization errors for drifting rules. Journal of Physics A, 1993, 26, 6161-6171.	1.6	28
20	Self-Organized Supercriticality and Oscillations in Networks of Stochastic Spiking Neurons. Entropy, 2017, 19, 399.	2.2	27
21	Signal compression in the sensory periphery. Neurocomputing, 2005, 65-66, 691-696.	5.9	25
22	Learning algorithm that gives the Bayes generalization limit for perceptrons. Physical Review E, 1996, 54, R54-R57.	2.1	24
23	A minimal model for excitable and bursting elements. Neurocomputing, 2001, 38-40, 255-261.	5.9	24
24	Rheology of the gelation process of silica gel. Journal of Non-Crystalline Solids, 1988, 105, 191-197.	3.1	23
25	Escaping from cycles through a glass transition. Physical Review E, 2003, 68, 016104.	2.1	23
26	Intensity coding in two-dimensional excitable neural networks. Physica A: Statistical Mechanics and Its Applications, 2005, 349, 431-442.	2.6	22
27	Deterministic walks as an algorithm of pattern recognition. Physical Review E, 2006, 74, 026703.	2.1	22
28	Correlations induced by depressing synapses in critically self-organized networks with quenched dynamics. Physical Review E, 2017, 95, 042303.	2.1	21
29	Statistical Mechanics of Online Learning of Drifting Concepts: A Variational Approach. Machine Learning, 1998, 32, 179-201.	5.4	20
30	Exploratory behavior, trap models, and glass transitions. Physical Review E, 2004, 69, 017101.	2.1	20
31	Statistical physics approach to dendritic computation: The excitable-wave mean-field approximation. Physical Review E, 2012, 85, 011911.	2.1	20
32	Equivalence between learning in noisy perceptrons and tree committee machines. Physical Review E, 1996, 53, 6341-6352.	2.1	18
33	Random-neighbor Olami-Feder-Christensen slip-stick model. Physical Review E, 1998, 58, 3997-4000.	2.1	18
34	Lobby index as a network centrality measure. Physica A: Statistical Mechanics and Its Applications, 2013, 392, 5511-5515.	2.6	18
35	Critical avalanches and subsampling in map-based neural networks coupled with noisy synapses. Physical Review E, 2013, 88, 024701.	2.1	18
36	Scaling law for the transient behavior of type-II neuron models. Physical Review E, 2007, 75, 021911.	2.1	17

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37	Noise robustness in multilayer neural networks. Europhysics Letters, 1997, 37, 427-432.	2.0	16
38	Stability diagrams for bursting neurons modeled by three-variable maps. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 263-269.	2.6	16
39	Conway's game of life is a near-critical metastable state in the multiverse of cellular automata. Physical Review E, 2014, 89, 052123.	2.1	16
40	Mechanisms of Self-Organized Quasicriticality in Neuronal Network Models. Frontiers in Physics, 2020, 8, .	2.1	16
41	On-line versus off-line learning in the linear perceptron: A comparative study. Physical Review E, 1995, 52, 2878-2886.	2.1	12
42	Time ordering in the evolution of information processing and modulation systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1565-1574.	0.6	11
43	A unified theory of E/I synaptic balance, quasicritical neuronal avalanches and asynchronous irregular spiking. Journal of Physics Complexity, 2021, 2, 045001.	2.2	11
44	Hirsch's index: a case study conducted at the Faculdade de Filosofia, CiÃªncias e Letras de RibeirÃ£o Preto, Universidade de SÃ£o Paulo. Brazilian Journal of Medical and Biological Research, 2007, 40, 1529-1536.	1.5	8
45	Neuronal avalanches in Watts-Strogatz networks of stochastic spiking neurons. Physical Review E, 2021, 104, 014137.	2.1	8
46	Invasion percolation solves Fermi Paradox but challenges SETI projects. International Journal of Astrobiology, 2019, 18, 316-322.	1.6	7
47	MetÃ¡foras cientÃficas no discurso jornalÃstico. Revista Brasileira De Ensino De Fisica, 2012, 34, 1-12.	0.2	7
48	Biased learning in Boolean perceptrons. Physica A: Statistical Mechanics and Its Applications, 1992, 185, 411-416.	2.6	6
49	Absence of self-organized criticality in a random-neighbor version of the OFC stick-slip model. Physica A: Statistical Mechanics and Its Applications, 1998, 257, 488-494.	2.6	5
50	A simple centrality index for scientific social recognition. Physica A: Statistical Mechanics and Its Applications, 2018, 491, 632-640.	2.6	5
51	Character networks and book genre classification. International Journal of Modern Physics C, 2019, 30, 1950058.	1.7	5
52	Homeostatic criticality in neuronal networks. Chaos, Solitons and Fractals, 2022, 156, 111877.	5.1	5
53	Nonsynchronous updating in the multiverse of cellular automata. Physical Review E, 2015, 91, 042110.	2.1	4
54	Learning a spin glass: Determining Hamiltonians from metastable states. Physica A: Statistical Mechanics and Its Applications, 1998, 257, 28-35.	2.6	3

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55	Optimal pruning in neural networks. Physical Review E, 2000, 62, 8387-8394.	2.1	3
56	O estado da blogosfera cientÃfica brasileira. Em QuestÃ£o, 0, , 274-289.	0.1	3
57	Physics of psychophysics: Large dynamic range in critical square lattices of spiking neurons. Physical Review Research, 2020, 2, .	3.6	3
58	Chaotic itinerancy, temporal segmentation and spatio-temporal combinatorial codes. Physica D: Nonlinear Phenomena, 2008, 237, 1-5.	2.8	2
59	A reliable measure of similarity based on dependency for short time series: an application to gene expression networks. BMC Bioinformatics, 2009, 10, 270.	2.6	1
60	Dynamical phase diagrams of neural networks with asymmetric couplings. Physical Review E, 1997, 55, 7344-7353.	2.1	0
61	Physics of psychophysics: optimal dynamic range of critical excitable networks. BMC Neuroscience, 2007, 8, .	1.9	0
62	Signal propagation and neuronal avalanches analysis in networks of formal neurons. BMC Neuroscience, 2011, 12, .	1.9	0
63	The K-index and the hubs of science. European Heart Journal, 2018, 39, 3489-3490.	2.2	0
64	Medindo a massa inercial usando uma balanÃ§a romana. Revista Brasileira De Ensino De Fisica, 0, 43, .	0.2	0
65	Time ordering in the evolution of information processing and modulation systems. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1565-1574.	0.6	0
66	A generalization of Graded Response Formal Neurons. , 0, , .		0
67	Prime numbers and random walks in a square grid. Physical Review E, 2021, 104, 054114.	2.1	0
68	A analogia entre ondas eletromagnÃ©ticas e elastodinÃ¢mica linear. Revista Brasileira De Ensino De Fisica, 0, 44, .	0.2	0