MÃ¡ria Ercsey-Ravasz

List of Publications by Year
in descending order

46 papers	3,337 citations	331259 21 h-index	301761 39 g-index
47 all docs	47 docs citations	47 times ranked	3651 citing authors

#	Article	IF	Citations
1	Cell Surface Protein mRNAs Show Differential Transcription in Pyramidal and Fast-Spiking Cells as Revealed by Single-Cell Sequencing. Cerebral Cortex, 2021, 31, 731-745.	1.6	5
2	Mitigating ageing bias in article level metrics using citation network analysis. Journal of Informetrics, 2021, 15, 101105.	1.4	6
3	A Novel Measure Inspired by Lyapunov Exponents for the Characterization of Dynamics in State-Transition Networks. Entropy, 2021, 23, 103.	1.1	4
4	Alcohol and sweet reward are encoded by distinct meta-ensembles. Neuropharmacology, 2021, 195, 108496.	2.0	10
5	The Mouse Cortical Connectome, Characterized by an Ultra-Dense Cortical Graph, Maintains Specificity by Distinct Connectivity Profiles. Neuron, 2018, 97, 698-715.e10.	3.8	169
6	Efficient Analog Circuits for Boolean Satisfiability. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2018, 26, 155-167.	2.1	23
7	A continuous-time MaxSAT solver with high analog performance. Nature Communications, 2018, 9, 4864.	5.8	25
8	Stochastic graph Voronoi tessellation reveals community structure. Physical Review E, 2017, 95, 022306.	0.8	1
9	A multiscale cerebral neurochemical connectome of the rat brain. PLoS Biology, 2017, 15, e2002612.	2.6	34
10	Spatial Embedding and Wiring Cost Constrain the Functional Layout of the Cortical Network of Rodents and Primates. PLoS Biology, 2016, 14, e1002512.	2.6	158
11	Order-to-chaos transition in the hardness of random Boolean satisfiability problems. Physical Review E, 2016, 93, 052211.	0.8	8
12	Principles of dynamical modularity in biological regulatory networks. Scientific Reports, 2016, 6, 21957.	1.6	33
13	The Brain in Space. Research and Perspectives in Neurosciences, 2016, , 45-74.	0.4	13
14	A Weighted and Directed Interareal Connectivity Matrix for Macaque Cerebral Cortex. Cerebral Cortex, 2014, 24, 17-36.	1.6	711
15	Robust optimization with transiently chaotic dynamical systems. Europhysics Letters, 2014, 106, 40002.	0.7	8
16	Predicting commuter flows in spatial networks using a radiation model based on temporal ranges. Nature Communications, 2014, 5, 5347.	5.8	118
17	A CNN SAT-solver robust to noise. , 2014, , .		0
18	Analog dynamics for solving max-SAT problems. , 2014, , .		1

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19	Community detection by graph Voronoi diagrams. New Journal of Physics, 2014, 16, 063007.	1.2	22
20	Cortical High-Density Counterstream Architectures. Science, 2013, 342, 1238406.	6.0	468
21	A Predictive Network Model of Cerebral Cortical Connectivity Based on a Distance Rule. Neuron, 2013, 80, 184-197.	3.8	372
22	The role of long-range connections on the specificity of the macaque interareal cortical network. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5187-5192.	3.3	172
23	Asymmetric Continuous-Time Neural Networks without Local Traps for Solving Constraint Satisfaction Problems. PLoS ONE, 2013, 8, e73400.	1.1	18
24	The Chaos Within Sudoku. Scientific Reports, 2012, 2, 725.	1.6	41
25	Continuous-time neural networks without local traps for solving Boolean satisfiability. , 2012, , .		6
26	Range-limited centrality measures in complex networks. Physical Review E, 2012, 85, 066103.	0.8	38
27	Complexity of the International Agro-Food Trade Network and Its Impact on Food Safety. PLoS ONE, 2012, 7, e37810.	1.1	125
28	Optimization hardness as transient chaos in an analog approach to constraint satisfaction. Nature Physics, 2011, 7, 966-970.	6.5	82
29	Weight Consistency Specifies Regularities of Macaque Cortical Networks. Cerebral Cortex, 2011, 21, 1254-1272.	1.6	316
30	Modeling Conformational Ensembles of Slow Functional Motions in Pin1-WW. PLoS Computational Biology, 2010, 6, e1001015.	1.5	76
31	Centrality Scaling in Large Networks. Physical Review Letters, 2010, 105, 038701.	2.9	48
32	Cellular Wave Computing in Nanoscale via Million Processor Chips. , 2010, , 5-25.		1
33	Correlation clustering on networks. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 345003.	0.7	6
34	Stochastic optimization of spin-glasses on cellular neural/nonlinear network based processors. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 1024-1030.	1.2	2
35	Cellular Neural Networks for NP-Hard Optimization. Eurasip Journal on Advances in Signal Processing, 2009, 2009, .	1.0	5
36	Statistical physics on cellular neural network computers. Physica D: Nonlinear Phenomena, 2008, 237, 1226-1234.	1.3	7

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37	Collective behavior of electronic fireflies. European Physical Journal B, 2008, 65, 271-277.	0.6	6
38	Cellular neural networks for NP-hard optimization. , 2008, , .		4
39	Random Number Generator and Monte Carlo type Simulations on the CNN-UM. , 2006, , .		3
40	Phase transition in an optimal clusterization model. Physica A: Statistical Mechanics and Its Applications, 2006, 362, 357-368.	1.2	11
41	Stochastic simulations on the cellular wave computers. European Physical Journal B, 2006, 51, 407-411.	0.6	10
42	PERSPECTIVES FOR MONTE CARLO SIMULATIONS ON THE CNN UNIVERSAL MACHINE. International Journal of Modern Physics C, 2006, 17, 909-922.	0.8	8
43	Three-state Potts model in combination with the rock-scissors-paper game. Physical Review E, 2005, 71, 027102.	0.8	21
44	Spreading of families in cyclic predator-prey models. Physical Review E, 2004, 70, 012901.	0.8	13
45	Spiral Cracks in Drying Precipitates. Physical Review Letters, 2002, 88, 095502.	2.9	78
46	Spiral cracks without twisting. Nature, 2001, 410, 166-166.	13.7	49