

David Saad

List of Publications by Year in descending order

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31
papers

909
citations

777949

13
h-index

511568

30
g-index

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all docs

31
docs citations

31
times ranked

532
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable node-disjoint and edge-disjoint multiwavelength routing. <i>Physical Review E</i> , 2022, 105, 044316.	0.8	4
2	Principled Machine Learning. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022, 28, 1-19.	1.9	1
3	Self-organization scheme for balanced routing in large-scale multi-hop networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 045001.	0.7	3
4	Futility of being selfish in optimized traffic. <i>Physical Review E</i> , 2021, 103, 022306.	0.8	6
5	Competition, Collaboration, and Optimization in Multiple Interacting Spreading Processes. <i>Physical Review X</i> , 2021, 11, .	2.8	10
6	Impact of presymptomatic transmission on epidemic spreading in contact networks: A dynamic message-passing analysis. <i>Physical Review E</i> , 2021, 103, 052303.	0.8	7
7	Space of Functions Computed by Deep-Layered Machines. <i>Physical Review Letters</i> , 2020, 125, 168301.	2.9	4
8	Large deviation analysis of function sensitivity in random deep neural networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 104002.	0.7	7
9	Reducing urban traffic congestion due to localized routing decisions. <i>Physical Review Research</i> , 2020, 2, .	1.3	3
10	Entropy Inflection and Invisible Low-Energy States: Defensive Alliance Example. <i>Physical Review Letters</i> , 2018, 121, 210602.	2.9	6
11	Slow spin dynamics and self-sustained clusters in sparsely connected systems. <i>Physical Review E</i> , 2018, 97, 062154.	0.8	2
12	Exploring the Function Space of Deep-Learning Machines. <i>Physical Review Letters</i> , 2018, 120, 248301.	2.9	15
13	Chimera-like states in structured heterogeneous networks. <i>Chaos</i> , 2017, 27, 043109.	1.0	6
14	Self-sustained clusters as drivers of computational hardness in p-spin models. <i>Physical Review B</i> , 2017, 96, .	1.1	3
15	Optimal deployment of resources for maximizing impact in spreading processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8138-E8146.	3.3	48
16	High storage capacity in the Hopfield model with auto-interactions’s stability analysis. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 465001.	0.7	7
17	Communication networks beyond the capacity crunch. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150191.	1.6	71
18	Shortest node-disjoint paths on random graphs. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P07009.	0.9	16

#	ARTICLE	IF	CITATIONS
19	Self-sustained clusters and ergodicity breaking in spin models. Physical Review E, 2013, 88, 032132.	0.8	4
20	Emergence of equilibriumlike domains within nonequilibrium Ising spin systems. Physical Review E, 2013, 87, .	0.8	6
21	From the physics of interacting polymers to optimizing routes on the London Underground. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 13717-13722.	3.3	51
22	Competition for Shortest Paths on Sparse Graphs. Physical Review Letters, 2012, 108, 208701.	2.9	28
23	Noisy random Boolean formulae: A statistical physics perspective. Physical Review E, 2010, 82, 041112.	0.8	14
24	Computing with Noise: Phase Transitions in Boolean Formulas. Physical Review Letters, 2009, 103, 248701.	2.9	10
25	Minimizing dissatisfaction in colourful neighbourhoods. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 324023.	0.7	5
26	Random graph coloring: Statistical physics approach. Physical Review E, 2002, 66, 056120.	0.8	31
27	Typical Performance of Gallager-Type Error-Correcting Codes. Physical Review Letters, 2000, 84, 1355-1358.	2.9	98
28	Statistical mechanics of error-correcting codes. Europhysics Letters, 1999, 45, 97-103.	0.7	137
29	Belief propagation vs. TAP for decoding corrupted messages. Europhysics Letters, 1998, 44, 668-674.	0.7	138
30	Globally Optimal Parameters for On-Line Learning in Multilayer Neural Networks. Physical Review Letters, 1997, 79, 2578-2581.	2.9	38
31	Exact Solution for On-Line Learning in Multilayer Neural Networks. Physical Review Letters, 1995, 74, 4337-4340.	2.9	130