

Bo SÃ¶nderberg

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,146
citations

566801

15
h-index

525886

27
g-index

31
all docs

31
docs citations

31
times ranked

622
citing authors

#	ARTICLE	IF	CITATIONS
1	Limitations of field-theory simulation for exploring phase separation: The role of repulsion in a lattice protein model. <i>Journal of Chemical Physics</i> , 2022, 156, 015101.	1.2	3
2	Deterministic annealing with Potts neurons for multi-robot routing. <i>Intelligent Service Robotics</i> , 2022, 15, 321-334.	1.6	2
3	Optical advantages and function of multifocal spherical fish lenses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 1786.	0.8	10
4	Adjusting a light dispersion model to fit measurements from vertebrate ocular media as well as ray-tracing in fish lenses. <i>Vision Research</i> , 2010, 50, 850-853.	0.7	5
5	Effects of the peripheral layers on the optical properties of spherical fish lenses. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 2468.	0.8	8
6	Properties of random graphs with hidden color. <i>Physical Review E</i> , 2003, 68, 026107.	0.8	28
7	Random graphs with hidden color. <i>Physical Review E</i> , 2003, 68, 015102.	0.8	35
8	General formalism for inhomogeneous random graphs. <i>Physical Review E</i> , 2002, 66, 066121.	0.8	165
9	An information-based neural approach to generic constraint satisfaction. <i>Artificial Intelligence</i> , 2002, 142, 1-17.	3.9	4
10	An efficient mean field approach to the set covering problem. <i>European Journal of Operational Research</i> , 2001, 133, 583-595.	3.5	28
11	An Information-Based Neural Approach to Constraint Satisfaction. <i>Neural Computation</i> , 2001, 13, 1827-1838.	1.3	2
12	Airline crew scheduling using Potts mean field techniques. <i>European Journal of Operational Research</i> , 2000, 120, 81-96.	3.5	11
13	Optimization with neural networks. , 1999, , 243-256.		1
14	A Potts Neuron Approach to Communication Routing. <i>Neural Computation</i> , 1998, 10, 1587-1599.	1.3	12
15	The electrostatic persistence length calculated from Monte Carlo, variational and perturbation methods. <i>Journal of Chemical Physics</i> , 1997, 107, 1279-1287.	1.2	65
16	Airline Crew Scheduling with Potts Neurons. <i>Neural Computation</i> , 1997, 9, 1589-1599.	1.3	16
17	A Monte Carlo study of titrating polyelectrolytes. <i>Journal of Chemical Physics</i> , 1996, 104, 3048-3057.	1.2	56
18	Scaling and scale breaking in polyelectrolytes. <i>Journal of Chemical Physics</i> , 1996, 105, 5233-5241.	1.2	4

#	ARTICLE	IF	CITATIONS
19	Variational approach for minimizing Lennard-Jones energies. Physical Review E, 1996, 53, 1725-1731.	0.8	1
20	Blocking Technique for Emulating Very Large Polyelectrolytes. Physical Review Letters, 1996, 76, 1079-1082.	2.9	3
21	Titration of Polyelectrolytes: Variational Calculations and Monte Carlo Simulations. The Journal of Physical Chemistry, 1996, 100, 409-417.	2.9	14
22	Neural Networks for Optimization Problems with Inequality Constraints: The Knapsack Problem. Neural Computation, 1993, 5, 331-339.	1.3	75
23	Variational approach to correlations in charged polymers. Physical Review Letters, 1993, 71, 376-379.	2.9	18
24	OPTIMIZATION WITH POTTS NEURAL NETWORKS. , 1993, , 181-190.		1
25	Rotor Neurons: Basic Formalism and Dynamics. Neural Computation, 1992, 4, 737-745.	1.3	17
26	Apollonian tiling, the Lorentz group, and regular trees. Physical Review A, 1992, 46, 1859-1866.	1.0	25
27	Complex Scheduling with Potts Neural Networks. Neural Computation, 1992, 4, 805-831.	1.3	36
28	"TEACHERS AND CLASSES" WITH NEURAL NETWORKS. International Journal of Neural Systems, 1989, 01, 167-176.	3.2	31
29	A NEW METHOD FOR MAPPING OPTIMIZATION PROBLEMS ONTO NEURAL NETWORKS. International Journal of Neural Systems, 1989, 01, 3-22.	3.2	373
30	Scaling Laws for Mode Lockings in Circle Maps. Physica Scripta, 1985, 32, 263-270.	1.2	97