

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	A NEW METHOD FOR MAPPING OPTIMIZATION PROBLEMS ONTO NEURAL NETWORKS. International Journal of Neural Systems, 1989, 01, 3-22.	3.2	373
2	General formalism for inhomogeneous random graphs. Physical Review E, 2002, 66, 066121.	0.8	165
3	Scaling Laws for Mode Lockings in Circle Maps. Physica Scripta, 1985, 32, 263-270.	1.2	97
4	Neural Networks for Optimization Problems with Inequality Constraints: The Knapsack Problem. Neural Computation, 1993, 5, 331-339.	1.3	75
5	The electrostatic persistence length calculated from Monte Carlo, variational and perturbation methods. Journal of Chemical Physics, 1997, 107, 1279-1287.	1.2	65
6	A Monte Carlo study of titrating polyelectrolytes. Journal of Chemical Physics, 1996, 104, 3048-3057.	1.2	56
7	Complex Scheduling with Potts Neural Networks. Neural Computation, 1992, 4, 805-831.	1.3	36
8	Random graphs with hidden color. Physical Review E, 2003, 68, 015102.	0.8	35
9	"TEACHERS AND CLASSES" WITH NEURAL NETWORKS. International Journal of Neural Systems, 1989, 01, 167-176.	3.2	31
10	An efficient mean field approach to the set covering problem. European Journal of Operational Research, 2001, 133, 583-595.	3.5	28
11	Properties of random graphs with hidden color. Physical Review E, 2003, 68, 026107.	0.8	28
12	Apollonian tiling, the Lorentz group, and regular trees. Physical Review A, 1992, 46, 1859-1866.	1.0	25
13	Variational approach to correlations in charged polymers. Physical Review Letters, 1993, 71, 376-379.	2.9	18
14	Rotor Neurons: Basic Formalism and Dynamics. Neural Computation, 1992, 4, 737-745.	1.3	17
15	Airline Crew Scheduling with Potts Neurons. Neural Computation, 1997, 9, 1589-1599.	1.3	16
16	Titration Polyelectrolytes Variational Calculations and Monte Carlo Simulations. The Journal of Physical Chemistry, 1996, 100, 409-417.	2.9	14
17	A Potts Neuron Approach to Communication Routing. Neural Computation, 1998, 10, 1587-1599.	1.3	12
18	Airline crew scheduling using Potts mean field techniques. European Journal of Operational Research, 2000, 120, 81-96.	3.5	11

#	ARTICLE	IF	CITATIONS
19	Optical advantages and function of multifocal spherical fish lenses. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1786.	0.8	10
20	Effects of the peripheral layers on the optical properties of spherical fish lenses. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2008, 25, 2468.	0.8	8
21	Adjusting a light dispersion model to fit measurements from vertebrate ocular media as well as ray-tracing in fish lenses. Vision Research, 2010, 50, 850-853.	0.7	5
22	Scaling and scale breaking in polyelectrolytes. Journal of Chemical Physics, 1996, 105, 5233-5241.	1.2	4
23	An information-based neural approach to generic constraint satisfaction. Artificial Intelligence, 2002, 142, 1-17.	3.9	4
24	Blocking Technique for Emulating Very Large Polyelectrolytes. Physical Review Letters, 1996, 76, 1079-1082.	2.9	3
25	Limitations of field-theory simulation for exploring phase separation: The role of repulsion in a lattice protein model. Journal of Chemical Physics, 2022, 156, 015101.	1.2	3
26	An Information-Based Neural Approach to Constraint Satisfaction. Neural Computation, 2001, 13, 1827-1838.	1.3	2
27	Deterministic annealing with Potts neurons for multi-robot routing. Intelligent Service Robotics, 2022, 15, 321-334.	1.6	2
28	Variational approach for minimizing Lennard-Jones energies. Physical Review E, 1996, 53, 1725-1731.	0.8	1
29	Optimization with neural networks. , 1999, , 243-256.		1
30	OPTIMIZATION WITH POTTS NEURAL NETWORKS. , 1993, , 181-190.		1