## Bo Söderberg

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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.	3.0	3
2	Deterministic annealing with Potts neurons for multi-robot routing. Intelligent Service Robotics, 2022, 15, 321-334.	2.6	2
3	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.	1.5	10
4	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.	1.4	5
5	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.	1.5	8
6	Properties of random graphs with hidden color. Physical Review E, 2003, 68, 026107.	2.1	28
7	Random graphs with hidden color. Physical Review E, 2003, 68, 015102.	2.1	35
8	General formalism for inhomogeneous random graphs. Physical Review E, 2002, 66, 066121.	2.1	165
9	An information-based neural approach to generic constraint satisfaction. Artificial Intelligence, 2002, 142, 1-17.	5.8	4
10	An efficient mean field approach to the set covering problem. European Journal of Operational Research, 2001, 133, 583-595.	5.7	28
11	An Information-Based Neural Approach to Constraint Satisfaction. Neural Computation, 2001, 13, 1827-1838.	2.2	2
12	Airline crew scheduling using Potts mean field techniques. European Journal of Operational Research, 2000, 120, 81-96.	5.7	11
13	Optimization with neural networks. , 1999, , 243-256.		1
14	A Potts Neuron Approach to Communication Routing. Neural Computation, 1998, 10, 1587-1599.	2.2	12
15	The electrostatic persistence length calculated from Monte Carlo, variational and perturbation methods. Journal of Chemical Physics, 1997, 107, 1279-1287.	3.0	65
16	Airline Crew Scheduling with Potts Neurons. Neural Computation, 1997, 9, 1589-1599.	2.2	16
17	A Monte Carlo study of titrating polyelectrolytes. Journal of Chemical Physics, 1996, 104, 3048-3057.	3.0	56
18	Scaling and scale breaking in polyelectrolytes. Journal of Chemical Physics, 1996, 105, 5233-5241.	3.0	4

Bo Söderberg

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19	Variational approach for minimizing Lennard-Jones energies. Physical Review E, 1996, 53, 1725-1731.	2.1	1
20	Blocking Technique for Emulating Very Large Polyelectrolytes. Physical Review Letters, 1996, 76, 1079-1082.	7.8	3
21	Titrating PolyelectrolytesVariational 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.	2.2	75
23	Variational approach to correlations in charged polymers. Physical Review Letters, 1993, 71, 376-379.	7.8	18
24	OPTIMIZATION WITH POTTS NEURAL NETWORKS. , 1993, , 181-190.		1
25	Rotor Neurons: Basic Formalism and Dynamics. Neural Computation, 1992, 4, 737-745.	2.2	17
26	Apollonian tiling, the Lorentz group, and regular trees. Physical Review A, 1992, 46, 1859-1866.	2.5	25
27	Complex Scheduling with Potts Neural Networks. Neural Computation, 1992, 4, 805-831.	2.2	36
28	"TEACHERS AND CLASSES" WITH NEURAL NETWORKS. International Journal of Neural Systems, 1989, 01, 167-176.	5.2	31
29	A NEW METHOD FOR MAPPING OPTIMIZATION PROBLEMS ONTO NEURAL NETWORKS. International Journal of Neural Systems, 1989, 01, 3-22.	5.2	373
30	Scaling Laws for Mode Lockings in Circle Maps. Physica Scripta, 1985, 32, 263-270.	2.5	97