Martin Pelikan

List of Publications by Year
in descending order

58	3,118	361296	377752
papers	citations	20	34
		h-index	g-index

62	62	62	2184
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Optimization by Building and Using Probabilistic Models. Computational Optimization and Applications, 2002, 21, 5-20.	0.9	531
2	Structure and flexibility within proteins as identified through small angle X-ray scattering. General Physiology and Biophysics, 2009, 28, 174-189.	0.4	374
3	An introduction and survey of estimation of distribution algorithms. Swarm and Evolutionary Computation, 2011, 1, 111-128.	4.5	362
4	Linkage Problem, Distribution Estimation, and Bayesian Networks. Evolutionary Computation, 2000, 8, 311-340.	2.3	235
5	Ku and DNA-dependent Protein Kinase Dynamic Conformations and Assembly Regulate DNA Binding and the Initial Non-homologous End Joining Complex. Journal of Biological Chemistry, 2010, 285, 1414-1423.	1.6	189
6	Hierarchical Bayesian Optimization Algorithm. Studies in Fuzziness and Soft Computing, 2005, , .	0.6	185
7	Scalability of the Bayesian optimization algorithm. International Journal of Approximate Reasoning, 2002, 31, 221-258.	1.9	94
8	Dependency Structure Matrix, Genetic Algorithms, and Effective Recombination. Evolutionary Computation, 2009, 17, 595-626.	2.3	78
9	Multiobjective hBOA, clustering, and scalability. , 2005, , .		63
10	Hierarchical BOA Solves Ising Spin Glasses and MAXSAT. Lecture Notes in Computer Science, 2003, , 1271-1282.	1.0	55
11	Hierarchical Bayesian Optimization Algorithm. Studies in Fuzziness and Soft Computing, 0, , 105-129.	0.6	52
12	Fitness Inheritance in the Bayesian Optimization Algorithm. Lecture Notes in Computer Science, 2004, , 48-59.	1.0	47
13	Automated Global Structure Extraction for Effective Local Building Block Processing in XCS. Evolutionary Computation, 2006, 14, 345-380.	2.3	46
14	Estimation of Distribution Algorithms. , 2015, , 899-928.		43
15	Population sizing for entropy-based model building in discrete estimation of distribution algorithms. , 2007, , .		41
16	A hierarchy machine: Learning to optimize from nature and humans. Complexity, 2003, 8, 36-45.	0.9	39
17	Influence of selection and replacement strategies on linkage learning in BOA. , 2007, , .		39
18	Performance of evolutionary algorithms on NK landscapes with nearest neighbor interactions and tunable overlap. , 2009, , .		34

#	Article	IF	Citations
19	Analyzing probabilistic models in hierarchical BOA on traps and spin glasses. , 2007, , .		30
20	Hierarchical Bayesian Optimization Algorithm. Studies in Computational Intelligence, 2006, , 63-90.	0.7	30
21	Using previous models to bias structural learning in the hierarchical BOA. , 2008, , .		29
22	Analyzing Probabilistic Models in Hierarchical BOA. IEEE Transactions on Evolutionary Computation, 2009, 13, 1199-1217.	7.5	29
23	Getting the best of both worlds: Discrete and continuous genetic and evolutionary algorithms in concert. Information Sciences, 2003, 156, 147-171.	4.0	28
24	Substructural Neighborhoods for Local Search in the Bayesian Optimization Algorithm. Lecture Notes in Computer Science, 2006, , 232-241.	1.0	27
25	Sporadic model building for efficiency enhancement of the hierarchical BOA. Genetic Programming and Evolvable Machines, 2008, 9, 53-84.	1.5	26
26	iBOA. , 2008, , .		24
27	Model accuracy in the Bayesian optimization algorithm. Soft Computing, 2011, 15, 1351-1371.	2.1	23
28	An application of a multivariate estimation of distribution algorithm to cancer chemotherapy. , 2008, , .		22
29	Searching for Ground States of Ising Spin Glasses with Hierarchical BOA and Cluster Exact Approximation. Studies in Computational Intelligence, 2006, , 333-349.	0.7	21
30	Parameter-Less Hierarchical BOA. Lecture Notes in Computer Science, 2004, , 24-35.	1.0	19
31	Pairwise and problem-specific distance metrics in the linkage tree genetic algorithm. , 2011, , .		18
32	Hierarchical BOA on random decomposable problems. , 2006, , .		17
33	Efficiency Enhancement of Estimation of Distribution Algorithms. Studies in Computational Intelligence, 2006, , 161-185.	0.7	17
34	NK landscapes, problem difficulty, and hybrid evolutionary algorithms. , 2010, , .		16
35	Loopy Substructural Local Search for the Bayesian Optimization Algorithm. Lecture Notes in Computer Science, 2009, , 61-75.	1.0	16
36	From mating pool distributions to model overfitting. , 2008, , .		15

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37	Sporadic model building for efficiency enhancement of hierarchical BOA. , 2006, , .		14
38	Design of Multithreaded Estimation of Distribution Algorithms. Lecture Notes in Computer Science, 2003, , 1247-1258.	1.0	14
39	Transfer Learning, Soft Distance-Based Bias, and the Hierarchical BOA. Lecture Notes in Computer Science, 2012, , 173-183.	1.0	14
40	Computational Complexity and Simulation of Rare Events of Ising Spin Glasses. Lecture Notes in Computer Science, 2004, , 36-47.	1.0	13
41	Performance of Evolutionary Algorithms on Random Decomposable Problems. Lecture Notes in Computer Science, 2006, , 788-797.	1.0	12
42	Network crossover performance on NK landscapes and deceptive problems. , 2010, , .		11
43	Spurious dependencies and EDA scalability. , 2010, , .		10
44	Hierarchical BOA, Cluster Exact Approximation, and Ising Spin Glasses. Lecture Notes in Computer Science, 2006, , 122-131.	1.0	10
45	Hybrid evolutionary algorithms on minimum vertex cover for random graphs. , 2007, , .		9
46	Effects of a deterministic hill climber on hBOA. , 2009, , .		6
47	Design of Parallel Estimation of Distribution Algorithms. Studies in Computational Intelligence, 2006, , 187-203.	0.7	6
48	Edge histogram based sampling with local search for solving permutation problems. International Journal of Hybrid Intelligent Systems, 2006, 3, 11-22.	0.9	5
49	Empirical analysis of ideal recombination on random decomposable problems. , 2007, , .		5
50	Parameter-less Hierarchical Bayesian Optimization Algorithm. , 2007, , 225-239.		4
51	Advanced neighborhoods and problem difficulty measures. , 2011, , .		4
52	Influence of selection on structure learning in markov network EDAs. , 2012, , .		4
53	Distance-based bias in model-directed optimization of additively decomposable problems. , 2012, , .		4
54	Analysis of epistasis correlation on NK landscapes with nearest-neighbor interactions. , 2011, , .		2

#	Article	IF	Citations
55	Linkage Learning Accuracy in the Bayesian Optimization Algorithm. Studies in Computational Intelligence, 2008, , 87-107.	0.7	1
56	Analysis of evolutionary algorithms on the one-dimensional spin glass with power-law interactions. , 2009, , .		1
57	Genetic Programming, Probabilistic Incremental Program Evolution, and Scalability. Advances in Intelligent and Soft Computing, 2006, , 363-372.	0.2	1
58	Performance of Network Crossover on NK Landscapes and Spin Glasses. , 2010, , 462-471.		1