

Patrick Siarry

List of Publications by Citations

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121
papers

5,824
citations

38
h-index

75
g-index

131
ext. papers

6,858
ext. citations

3.7
avg, IF

6.21
L-index

#	Paper	IF	Citations
121	A survey on optimization metaheuristics. <i>Information Sciences</i> , 2013 , 237, 82-117	7.7	862
120	Nonlinear inertia weight variation for dynamic adaptation in particle swarm optimization. <i>Computers and Operations Research</i> , 2006 , 33, 859-871	4.6	392
119	Particle swarm and ant colony algorithms hybridized for improved continuous optimization. <i>Applied Mathematics and Computation</i> , 2007 , 188, 129-142	2.7	229
118	Tabu Search applied to global optimization. <i>European Journal of Operational Research</i> , 2000 , 123, 256-270	9.6	212
117	Genetic and Nelder-Mead algorithms hybridized for a more accurate global optimization of continuous multim minima functions. <i>European Journal of Operational Research</i> , 2003 , 148, 335-348	5.6	210
116	A combinatorial particle swarm optimization for solving multi-mode resource-constrained project scheduling problems. <i>Applied Mathematics and Computation</i> , 2008 , 195, 299-308	2.7	201
115	A Continuous Genetic Algorithm Designed for the Global Optimization of Multimodal Functions. <i>Journal of Heuristics</i> , 2000 , 6, 191-213	1.9	179
114	A multilevel automatic thresholding method based on a genetic algorithm for a fast image segmentation. <i>Computer Vision and Image Understanding</i> , 2008 , 109, 163-175	4.3	167
113	A comparative study of various meta-heuristic techniques applied to the multilevel thresholding problem. <i>Engineering Applications of Artificial Intelligence</i> , 2010 , 23, 676-688	7.2	153
112	Multiobjective Optimization. <i>Decision Engineering</i> , 2004 ,	0.1	148
111	An estimation of distribution algorithm for minimizing the total flowtime in permutation flowshop scheduling problems. <i>Computers and Operations Research</i> , 2009 , 36, 2638-2646	4.6	129
110	A new social and momentum component adaptive PSO algorithm for image segmentation. <i>Expert Systems With Applications</i> , 2011 , 38, 4998-5004	7.8	117
109	Continuous interacting ant colony algorithm based on dense heterarchy. <i>Future Generation Computer Systems</i> , 2004 , 20, 841-856	7.5	115
108	Differential evolution for solving multi-mode resource-constrained project scheduling problems. <i>Computers and Operations Research</i> , 2009 , 36, 2653-2659	4.6	113
107	A hybrid method combining continuous tabu search and Nelder-Mead simplex algorithms for the global optimization of multim minima functions. <i>European Journal of Operational Research</i> , 2005 , 161, 636-654	5.6	113
106	Improved spatial fuzzy c-means clustering for image segmentation using PSO initialization, Mahalanobis distance and post-segmentation correction 2013 , 23, 1390-1400		101
105	Analog circuit design optimization through the particle swarm optimization technique. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 63, 71-82	1.2	94

104	An image watermarking scheme in wavelet domain with optimized compensation of singular value decomposition via artificial bee colony. <i>Information Sciences</i> , 2015 , 301, 44-60	7.7	85
103	Index-based permutation-diffusion in multiple-image encryption using DNA sequence. <i>Optics and Lasers in Engineering</i> , 2019 , 115, 131-140	4.6	81
102	Integrating fuzzy entropy clustering with an improved PSO for MRI brain image segmentation. <i>Applied Soft Computing Journal</i> , 2018 , 65, 230-242	7.5	80
101	Combinatorial particle swarm optimization (CPSO) for partitional clustering problem. <i>Applied Mathematics and Computation</i> , 2007 , 192, 337-345	2.7	78
100	A theoretical study on the behavior of simulated annealing leading to a new cooling schedule. <i>European Journal of Operational Research</i> , 2005 , 166, 77-92	5.6	77
99	A genetic algorithm with real-value coding to optimize multimodal continuous functions. <i>Structural and Multidisciplinary Optimization</i> , 2001 , 23, 63-74	3.6	72
98	Fast multilevel thresholding for image segmentation through a multiphase level set method. <i>Signal Processing</i> , 2013 , 93, 139-153	4.4	71
97	FITTING OF TABU SEARCH TO OPTIMIZE FUNCTIONS OF CONTINUOUS VARIABLES. <i>International Journal for Numerical Methods in Engineering</i> , 1997 , 40, 2449-2457	2.4	71
96	A combinatorial particle swarm optimisation for solving permutation flowshop problems. <i>Computers and Industrial Engineering</i> , 2008 , 54, 526-538	6.4	71
95	A fuzzy logic control using a differential evolution algorithm aimed at modelling the financial market dynamics. <i>Information Sciences</i> , 2011 , 181, 79-91	7.7	65
94	Biogeography-based optimization for constrained optimization problems. <i>Computers and Operations Research</i> , 2012 , 39, 3293-3304	4.6	64
93	Differential evolution algorithm for the selection of optimal scaling factors in image watermarking. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 31, 15-26	7.2	60
92	Multi-objective optimization and energy management in renewable based AC/DC microgrid. <i>Computers and Electrical Engineering</i> , 2018 , 70, 179-198	4.3	58
91	Hybridizing Biogeography-Based Optimization With Differential Evolution for Optimal Power Allocation in Wireless Sensor Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2011 , 60, 2347-2353	6.8	52
90	A genetic algorithm for optimizing Takagi-Sugeno fuzzy rule bases. <i>Fuzzy Sets and Systems</i> , 1998 , 99, 37-47	3.7	52
89	Two-stage update biogeography-based optimization using differential evolution algorithm (DBBO). <i>Computers and Operations Research</i> , 2011 , 38, 1188-1198	4.6	49
88	Image histogram thresholding based on multiobjective optimization. <i>Signal Processing</i> , 2007 , 87, 2516-2534	4.4	45
87	Performance evaluation of TRIBES, an adaptive particle swarm optimization algorithm. <i>Swarm Intelligence</i> , 2009 , 3, 149-178	3	41

86	Three new metrics to measure the convergence of metaheuristics towards the Pareto frontier and the aesthetic of a set of solutions in biobjective optimization. <i>Computers and Operations Research</i> , 2005 , 32, 773-792	4.6	41
85	A hybrid genetic algorithm for solving no-wait flowshop scheduling problems. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 54, 1129-1143	3.2	39
84	A multi-swarm PSO using charged particles in a partitioned search space for continuous optimization. <i>Computational Optimization and Applications</i> , 2012 , 53, 271-295	1.4	38
83	Image thresholding based on Pareto multiobjective optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2010 , 23, 313-320	7.2	38
82	A PSO-aided neuro-fuzzy classifier employing linguistic hedge concepts. <i>Expert Systems With Applications</i> , 2007 , 33, 1097-1109	7.8	38
81	An improved biogeography based optimization approach for segmentation of human head CT-scan images employing fuzzy entropy. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 1698-1709	7.2	36
80	A trajectory planning of redundant manipulators based on bilevel optimization. <i>Applied Mathematics and Computation</i> , 2015 , 250, 934-947	2.7	34
79	A Multi-Objective Gravitational Search Algorithm Based on Non-Dominated Sorting. <i>International Journal of Swarm Intelligence Research</i> , 2012 , 3, 32-49	1.1	34
78	An ant colony algorithm aimed at dynamic continuous optimization. <i>Applied Mathematics and Computation</i> , 2006 , 181, 457-467	2.7	34
77	A survey on search-based model-driven engineering. <i>Automated Software Engineering</i> , 2017 , 24, 233-294	1.5	33
76	Combinatorial particle swarm optimization for solving blocking flowshop scheduling problem. <i>Journal of Computational Design and Engineering</i> , 2016 , 3, 295-311	4.6	33
75	A thresholding method based on two-dimensional fractional differentiation. <i>Image and Vision Computing</i> , 2009 , 27, 1343-1357	3.7	31
74	Non-supervised image segmentation based on multiobjective optimization. <i>Pattern Recognition Letters</i> , 2008 , 29, 161-172	4.7	27
73	Fractional differentiation and non-Pareto multiobjective optimization for image thresholding. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 236-249	7.2	26
72	Continuous ant colony system and tabu search algorithms hybridized for global minimization of continuous multi-minima functions. <i>Computational Optimization and Applications</i> , 2010 , 45, 639-661	1.4	26
71	A new charged ant colony algorithm for continuous dynamic optimization. <i>Applied Mathematics and Computation</i> , 2008 , 197, 604-613	2.7	26
70	A fractional partial differential equation based multiscale denoising model for texture image. <i>Mathematical Methods in the Applied Sciences</i> , 2014 , 37, 1784-1806	2.3	25
69	Hybrid ICABSO algorithm for continuous optimization. <i>Applied Mathematics and Computation</i> , 2013 , 219, 11149-11170	2.7	25

68	MO-TRIBES, an adaptive multiobjective particle swarm optimization algorithm. <i>Computational Optimization and Applications</i> , 2011 , 49, 379-400	1.4	25
67	A sensitivity analysis method for driving the Artificial Bee Colony algorithm's search process. <i>Applied Soft Computing Journal</i> , 2016 , 41, 515-531	7.5	24
66	An adaptive multi-objective algorithm based on decomposition and large neighborhood search for a green machine scheduling problem. <i>Swarm and Evolutionary Computation</i> , 2019 , 51, 100601	9.8	24
65	EM323: a line search based algorithm for solving high-dimensional continuous non-linear optimization problems. <i>Soft Computing</i> , 2011 , 15, 2275-2285	3.5	22
64	A multi-objective optimization approach for brain MRI segmentation using fuzzy entropy clustering and region-based active contour methods. <i>Magnetic Resonance Imaging</i> , 2019 , 61, 41-65	3.3	21
63	Design of second-generation current conveyors employing bacterial foraging optimization. <i>Microelectronics Journal</i> , 2010 , 41, 616-626	1.8	21
62	Boosting content based image retrieval performance through integration of parametric & nonparametric approaches. <i>Journal of Visual Communication and Image Representation</i> , 2019 , 58, 205-219	3.7	20
61	An Enhanced Particle Swarm Optimization Method Integrated With Evolutionary Game Theory. <i>IEEE Transactions on Games</i> , 2018 , 10, 221-230	1.2	19
60	An input-delay neural-network-based approach for piecewise ECG signal compression. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 945-7	5	17
59	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 3131-3138	5.2	16
58	A centred formulation of Takagi-Sugeno rules for improved learning efficiency. <i>Fuzzy Sets and Systems</i> , 1994 , 62, 277-285	3.7	14
57	Multiobjective improved spatial fuzzy c-means clustering for image segmentation combining Pareto-optimal clusters. <i>Journal of Heuristics</i> , 2016 , 22, 383-404	1.9	13
56	Solving reverse emergence with quantum PSO application to image processing. <i>Soft Computing</i> , 2019 , 23, 6921-6935	3.5	13
55	Global Simplex Optimization A simple and efficient metaheuristic for continuous optimization. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 48-55	7.2	13
54	A Swarm Intelligence Method Combined to Evolutionary Game Theory Applied to the Resources Allocation Problem. <i>International Journal of Swarm Intelligence Research</i> , 2012 , 3, 20-38	1.1	13
53	Solving bilevel programming problems with multicriteria optimization techniques. <i>Opsearch</i> , 2009 , 46, 169-183	1.6	13
52	A fuzzy rule base for the improved control of a pressurized water nuclear reactor. <i>IEEE Transactions on Fuzzy Systems</i> , 2000 , 8, 1-10	8.3	13
51	A Reliable Image Watermarking Scheme Based on Redistributed Image Normalization and SVD. <i>Discrete Dynamics in Nature and Society</i> , 2016 , 2016, 1-15	1.1	13

50	Detection and replacement of a failing node in the wireless sensors networks. <i>Computers and Electrical Engineering</i> , 2014 , 40, 421-432	4.3	11
49	A differential evolution algorithm to solve redundancy allocation problems. <i>International Transactions in Operational Research</i> , 2012 , 19, 809-824	2.9	11
48	Fuzzy rule base learning through simulated annealing. <i>Fuzzy Sets and Systems</i> , 1999 , 105, 353-363	3.7	11
47	Multi-objective design of optimal higher order sliding mode control for robust tracking of 2-DoF helicopter system based on metaheuristics. <i>Aerospace Science and Technology</i> , 2019 , 91, 442-455	4.9	10
46	Segmentation of MR Brain Images Through Hidden Markov Random Field and Hybrid Metaheuristic Algorithm. <i>IEEE Transactions on Image Processing</i> , 2020 ,	8.7	10
45	ADAPTIVE LEARNING SEARCH, A NEW TOOL TO HELP COMPREHENDING METAHEURISTICS. <i>International Journal on Artificial Intelligence Tools</i> , 2007 , 16, 483-505	0.9	9
44	A GRASP based on DE to solve single machine scheduling problem with SDST. <i>Computational Optimization and Applications</i> , 2012 , 51, 411-435	1.4	8
43	A multiple local search algorithm for continuous dynamic optimization. <i>Journal of Heuristics</i> , 2013 , 19, 35-76	1.9	8
42	Robust rigid registration of retinal angiograms through optimization. <i>Computerized Medical Imaging and Graphics</i> , 2006 , 30, 453-63	7.6	8
41	Circuit performance optimization and model fitting based on simulated annealing. <i>International Journal of Electronics</i> , 1992 , 73, 1267-1271	1.2	8
40	Robust RST control design based on Multi-Objective Particle Swarm Optimization approach. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 1607-1617	2.9	7
39	An RBF-PSO technique for the rapid optimization of (CMOS) analog circuits 2018 ,		7
38	Automatic ECG arrhythmias classification scheme based on the conjoint use of the multi-layer perceptron neural network and a new improved metaheuristic approach. <i>IET Signal Processing</i> , 2019 , 13, 726-735	1.7	6
37	Application of simulated annealing for estimating BAEPs in endocochlear pathologies. <i>Medical Engineering and Physics</i> , 2002 , 24, 385-92	2.4	6
36	On the Sensitivity of Aggregative Multiobjective Optimization Methods. <i>Journal of Computing and Information Technology</i> , 2008 , 16, 1	0.4	6
35	Automatic multiple moving humans detection and tracking in image sequences taken from a stationary thermal infrared camera. <i>Expert Systems With Applications</i> , 2020 , 146, 113171	7.8	6
34	Adaptive pattern search for large-scale optimization. <i>Applied Intelligence</i> , 2017 , 47, 319-330	4.9	5
33	A robust FLIR target detection employing an auto-convergent pulse coupled neural network. <i>Remote Sensing Letters</i> , 2019 , 10, 639-648	2.3	5

32	Dynamic cluster in particle swarm optimization algorithm. <i>Natural Computing</i> , 2015 , 14, 655-672	1.3	5
31	Convergence rates of the efficient global optimization algorithm for improving the design of analog circuits. <i>Analog Integrated Circuits and Signal Processing</i> , 2020 , 103, 143-162	1.2	5
30	An approach for finding efficient points in multiobjective linear programming. <i>Journal of Information and Optimization Sciences</i> , 2008 , 29, 203-216	1.1	5
29	Psychological stimulation for anxious states detection based on EEG-related features. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021 , 12, 8519-8533	3.7	5
28	A sensitivity analysis method aimed at enhancing the metaheuristics for continuous optimization. <i>Artificial Intelligence Review</i> , 2018 , 50, 625-647	9.7	4
27	Expected Improvement-Based Optimization Approach for the Optimal Sizing of a CMOS Operational Transconductance Amplifier 2018 ,		4
26	Novel approach for replacement of a failure node in wireless sensor network. <i>Telecommunication Systems</i> , 2017 , 65, 341-350	2.3	4
25	A new vision on the averaging technique for the estimation of non-stationary Brainstem Auditory-Evoked Potentials: application of a metaheuristic method. <i>Computers in Biology and Medicine</i> , 2006 , 36, 574-84	7	4
24	Evolutionary algorithm with ensemble strategies based on maximum a posteriori for continuous optimization. <i>Information Sciences</i> , 2018 , 460-461, 1-22	7.7	4
23	Pseudo Expected Improvement Based-Optimization for CMOS Analog Circuit Design 2019 ,		3
22	Local search for real-world scheduling and planning. <i>Engineering Applications of Artificial Intelligence</i> , 2012 , 25, 207-208	7.2	3
21	Fast simulated annealing algorithm for BAEP time delay estimation using a reduced order dynamic model. <i>Medical Engineering and Physics</i> , 2005 , 27, 705-11	2.4	3
20	A new neighborhood topology for QUAntum particle swarm optimization (QUAPSO) 2019 ,		2
19	A framework for analysis of brain cine MR sequences. <i>Computerized Medical Imaging and Graphics</i> , 2012 , 36, 152-68	7.6	2
18	Generalised influential rule search scheme for fuzzy function approximation. <i>Soft Computing</i> , 2006 , 10, 631-642	3.5	2
17	A hybrid particle swarm approach based on Tribes and tabu search for multi-objective optimization. <i>Optimization Methods and Software</i> , 2016 , 31, 204-231	1.3	1
16	Metaheuristics-based Multi-objective Design of Global Robust Optimal Sliding Mode Control of Discrete Uncertain Systems. <i>International Journal of Control, Automation and Systems</i> , 2019 , 17, 1378-1392	3.9	1
15	Epsilon-multiobjective particle swarm optimization-based tuning of sensitivity functions for polynomial control design. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 3688-3704	1.8	1

14	A method for solving bilevel linear programming problems. <i>Journal of Information and Optimization Sciences</i> , 2008 , 29, 335-338	1.1	1
13	Extraction of the topology of equivalent circuits based on parameter statistical evolution driven by simulated annealing. <i>International Journal of Electronics</i> , 1995 , 79, 47-52	1.2	1
12	Learning of neural networks approximating continuous functions through circuit simulator SPICE-PAC driven by simulated annealing. <i>International Journal of Electronics</i> , 1994 , 76, 437-441	1.2	1
11	Optimisation de circuits non linéaires et caractérisation de modèles de composants: association de la méthode du recuit simulé et du simulateur électrique Spice-pac. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 1991 , 46, 205-215	2	1
10	Effect of the Dynamic Topology on the Performance of PSO-2S Algorithm for Continuous Optimization. <i>Lecture Notes in Computer Science</i> , 2015 , 60-64	0.9	1
9	A modified sensitivity analysis method for driving a multidimensional search in the Artificial Bee Colony algorithm 2016 ,		1
8	QUANTUM Particle Swarm Optimization: an auto-adaptive PSO for local and global optimization. <i>Computational Optimization and Applications</i> , 1	1.4	1
7	A novel disturbance rejection factor based stable direct adaptive fuzzy control strategy for a class of nonlinear systems. <i>Expert Systems</i> , 2021 , 38, e12651	2.1	0
6	Computational intelligence in production and logistics systems: solving vehicle routing, supply chain network, and air-traffic trajectory planning problems [guest editorial]. <i>IEEE Computational Intelligence Magazine</i> , 2014 , 9, 16-17	5.6	
5	DESIGNING 2 POLE AND 2/4 POLE WINDINGS BY THE SIMULATED ANNEALING METHOD. <i>Electric Power Components and Systems</i> , 1998 , 26, 1059-1066		
4	BAEP dynamic estimation in case of endocochlear pathologies using a time delay correction method. <i>Journal of Medical Engineering and Technology</i> , 2004 , 28, 235-41	1.8	
3	Simulations of hardened components and circuits. <i>International Journal of Electronics</i> , 1996 , 81, 125-136	1.2	
2	Extracted Haralick Texture Features for Abnormal Blood Cells 2021 , 115-126		
1	Metaheuristics for the positioning of 3D objects based on image analysis of complementary 2D photographs. <i>Machine Vision and Applications</i> , 2021 , 32, 1	2.8	