

# Leandro Dos S Coelho

## List of Publications by Year in descending order

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419  
papers

14,674  
citations

22099

59  
h-index

29081

104  
g-index

425  
all docs

425  
docs citations

425  
times ranked

10463  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-objective grey wolf optimizer: A novel algorithm for multi-criterion optimization. Expert Systems With Applications, 2016, 47, 106-119.	4.4	1,080
2	Combining of Chaotic Differential Evolution and Quadratic Programming for Economic Dispatch Optimization With Valve-Point Effect. IEEE Transactions on Power Systems, 2006, 21, 989-996.	4.6	496
3	Gaussian quantum-behaved particle swarm optimization approaches for constrained engineering design problems. Expert Systems With Applications, 2010, 37, 1676-1683.	4.4	423
4	Elephant Herding Optimization. , 2015, , .		400
5	Short-term forecasting COVID-19 cumulative confirmed cases: Perspectives for Brazil. Chaos, Solitons and Fractals, 2020, 135, 109853.	2.5	339
6	Earthworm optimisation algorithm: a bio-inspired metaheuristic algorithm for global optimisation problems. International Journal of Bio-Inspired Computation, 2018, 12, 1.	0.6	306
7	Coevolutionary Particle Swarm Optimization Using Gaussian Distribution for Solving Constrained Optimization Problems. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 1407-1416.	5.5	293
8	Coyote Optimization Algorithm: A New Metaheuristic for Global Optimization Problems. , 2018, , .		274
9	Ensemble approach based on bagging, boosting and stacking for short-term prediction in agribusiness time series. Applied Soft Computing Journal, 2020, 86, 105837.	4.1	273
10	A new metaheuristic optimisation algorithm motivated by elephant herding behaviour. International Journal of Bio-Inspired Computation, 2016, 8, 394.	0.6	251
11	Solving economic load dispatch problems in power systems using chaotic and Gaussian particle swarm optimization approaches. International Journal of Electrical Power and Energy Systems, 2008, 30, 297-307.	3.3	214
12	Use of chaotic sequences in a biologically inspired algorithm for engineering design optimization. Expert Systems With Applications, 2008, 34, 1905-1913.	4.4	209
13	A quantum particle swarm optimizer with chaotic mutation operator. Chaos, Solitons and Fractals, 2008, 37, 1409-1418.	2.5	195
14	An efficient particle swarm approach for mixed-integer programming in reliabilityâ€“redundancy optimization applications. Reliability Engineering and System Safety, 2009, 94, 830-837.	5.1	183
15	Tuning of PID controller based on a multiobjective genetic algorithm applied to a robotic manipulator. Expert Systems With Applications, 2012, 39, 8968-8974.	4.4	182
16	An improved harmony search algorithm for power economic load dispatch. Energy Conversion and Management, 2009, 50, 2522-2526.	4.4	174
17	A novel framework for optimization of a grid independent hybrid renewable energy system: A case study of Iran. Solar Energy, 2015, 112, 383-396.	2.9	168
18	Binary optimization using hybrid particle swarm optimization and gravitational search algorithm. Neural Computing and Applications, 2014, 25, 1423-1435.	3.2	163

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19	Bat-Inspired Optimization Approach for the Brushless DC Wheel Motor Problem. IEEE Transactions on Magnetics, 2012, 48, 947-950.	1.2	161
20	A novel chaotic particle swarm optimization approach using HÃ©non map and implicit filtering local search for economic load dispatch. Chaos, Solitons and Fractals, 2009, 39, 510-518.	2.5	159
21	Tuning of PID controller for an automatic regulator voltage system using chaotic optimization approach. Chaos, Solitons and Fractals, 2009, 39, 1504-1514.	2.5	158
22	Particle swarm approach based on quantum mechanics and harmonic oscillator potential well for economic load dispatch with valve-point effects. Energy Conversion and Management, 2008, 49, 3080-3085.	4.4	143
23	Improved firefly algorithm approach applied to chiller loading for energy conservation. Energy and Buildings, 2013, 59, 273-278.	3.1	142
24	Determination of photovoltaic modules parameters at different operating conditions using a novel bird mating optimizer approach. Energy Conversion and Management, 2015, 89, 608-614.	4.4	136
25	Anisotropic Superconducting Properties of Aligned MgB2 Crystallites. Physical Review Letters, 2001, 86, 5974-5977.	2.9	135
26	Apparent thermal diffusivity estimation of the banana during drying using inverse method. Journal of Food Engineering, 2008, 85, 569-579.	2.7	128
27	Earthworm optimization algorithm: a bio-inspired metaheuristic algorithm for global optimization problems. International Journal of Bio-Inspired Computation, 2015, 1, 1.	0.6	122
28	Enhanced ensemble structures using wavelet neural networks applied to short-term load forecasting. Engineering Applications of Artificial Intelligence, 2019, 82, 272-281.	4.3	115
29	Improved differential evolution approach based on cultural algorithm and diversity measure applied to solve economic load dispatch problems. Mathematics and Computers in Simulation, 2009, 79, 3136-3147.	2.4	113
30	An efficient cultural self-organizing migrating strategy for economic dispatch optimization with valve-point effect. Energy Conversion and Management, 2010, 51, 2580-2587.	4.4	110
31	Design of heat exchangers using Falcon Optimization Algorithm. Applied Thermal Engineering, 2019, 156, 119-144.	3.0	110
32	Firefly algorithm approach based on chaotic Tinkerbell map applied to multivariable PID controller tuning. Computers and Mathematics With Applications, 2012, 64, 2371-2382.	1.4	103
33	Multi-objective optimization of the environmental-economic dispatch with reinforcement learning based on non-dominated sorting genetic algorithm. Applied Thermal Engineering, 2019, 146, 688-700.	3.0	103
34	Wind speed forecasting approach based on Singular Spectrum Analysis and Adaptive Neuro Fuzzy Inference System. Renewable Energy, 2018, 126, 736-754.	4.3	100
35	A novel decomposition-ensemble learning framework for multi-step ahead wind energy forecasting. Energy, 2021, 216, 119174.	4.5	99
36	A chaotic quantum-behaved particle swarm approach applied to optimization of heat exchangers. Applied Thermal Engineering, 2012, 42, 119-128.	3.0	96

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37	Improved differential evolution algorithms for handling economic dispatch optimization with generator constraints. <i>Energy Conversion and Management</i> , 2007, 48, 1631-1639.	4.4	95
38	Modified imperialist competitive algorithm based on attraction and repulsion concepts for reliability-redundancy optimization. <i>Expert Systems With Applications</i> , 2013, 40, 3794-3802.	4.4	95
39	Gaussian Artificial Bee Colony Algorithm Approach Applied to Loney's Solenoid Benchmark Problem. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 1326-1329.	1.2	93
40	Particle swarm approaches using Lozi map chaotic sequences to fuzzy modelling of an experimental thermal-vacuum system. <i>Applied Soft Computing Journal</i> , 2008, 8, 1354-1364.	4.1	92
41	Multi-step wind speed forecasting based on hybrid multi-stage decomposition model and long short-term memory neural network. <i>Energy Conversion and Management</i> , 2020, 213, 112869.	4.4	92
42	An improved harmony search algorithm for synchronization of discrete-time chaotic systems. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 2526-2532.	2.5	90
43	Optimal chiller loading for energy conservation using a new differential cuckoo search approach. <i>Energy</i> , 2014, 75, 237-243.	4.5	89
44	Image thresholding segmentation based on a novel beta differential evolution approach. <i>Expert Systems With Applications</i> , 2015, 42, 2136-2142.	4.4	89
45	Capacitor placement of distribution systems using particle swarm optimization approaches. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 64, 839-851.	3.3	88
46	Forecasting Brazilian and American COVID-19 cases based on artificial intelligence coupled with climatic exogenous variables. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110027.	2.5	87
47	Fuzzy Identification Based on a Chaotic Particle Swarm Optimization Approach Applied to a Nonlinear Yo-yo Motion System. <i>IEEE Transactions on Industrial Electronics</i> , 2007, 54, 3234-3245.	5.2	86
48	A backtracking search algorithm combined with Burger's chaotic map for parameter estimation of PEMFC electrochemical model. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 11165-11174.	3.8	85
49	Magnetocaloric effect in the $RNi_5$ ( $R=Pr, Nd, Gd, Tb, Dy, Ho, Er$ ) series. <i>Physical Review B</i> , 2004, 70, .	1.1	84
50	Solving non-smooth economic dispatch by a new combination of continuous GRASP algorithm and differential evolution. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 84, 13-24.	3.3	83
51	Model-free adaptive control optimization using a chaotic particle swarm approach. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 2001-2009.	2.5	82
52	Differential evolution optimization combined with chaotic sequences for image contrast enhancement. <i>Chaos, Solitons and Fractals</i> , 2009, 42, 522-529.	2.5	78
53	Economic optimization design for shell-and-tube heat exchangers by a Tsallis differential evolution. <i>Applied Thermal Engineering</i> , 2017, 111, 143-151.	3.0	77
54	Cultural coyote optimization algorithm applied to a heavy duty gas turbine operation. <i>Energy Conversion and Management</i> , 2019, 199, 111932.	4.4	73

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55	Optimal allocation, sizing of PHEV parking lots in distribution system. International Journal of Electrical Power and Energy Systems, 2015, 67, 472-477.	3.3	72
56	Efficient bootstrap stacking ensemble learning model applied to wind power generation forecasting. International Journal of Electrical Power and Energy Systems, 2022, 136, 107712.	3.3	70
57	Multiobjective Biogeography-Based Optimization Based on Predator-Prey Approach. IEEE Transactions on Magnetics, 2012, 48, 951-954.	1.2	66
58	A chaotic firefly algorithm applied to reliability-redundancy optimization. , 2011, , .		65
59	An improved free search differential evolution algorithm: A case study on parameters identification of one diode equivalent circuit of a solar cell module. Energy, 2015, 93, 1515-1522.	4.5	64
60	Wavelet group method of data handling for fault prediction in electrical power insulators. International Journal of Electrical Power and Energy Systems, 2020, 123, 106269.	3.3	63
61	Chaotic coyote algorithm applied to truss optimization problems. Computers and Structures, 2021, 242, 106353.	2.4	63
62	Theoretical description of the colossal entropic magnetocaloric effect: Application to MnAs. Physical Review B, 2006, 73, .	1.1	62
63	Multi-step ahead nonlinear identification of Lorenz's chaotic system using radial basis neural network with learning by clustering and particle swarm optimization. Chaos, Solitons and Fractals, 2008, 35, 967-979.	2.5	62
64	Global Optimization of Electromagnetic Devices Using an Exponential Quantum-Behaved Particle Swarm Optimizer. IEEE Transactions on Magnetics, 2008, 44, 1074-1077.	1.2	61
65	Differential evolution based on truncated Levy-type flights and population diversity measure to solve economic load dispatch problems. International Journal of Electrical Power and Energy Systems, 2014, 57, 178-188.	3.3	61
66	A self-adaptive chaotic differential evolution algorithm using gamma distribution for unconstrained global optimization. Applied Mathematics and Computation, 2014, 234, 452-459.	1.4	59
67	Wind turbine blade geometry design based on multi-objective optimization using metaheuristics. Energy, 2018, 162, 645-658.	4.5	59
68	A RBF neural network model with GARCH errors: Application to electricity price forecasting. Electric Power Systems Research, 2011, 81, 74-83.	2.1	58
69	Binary coyote optimization algorithm for feature selection. Pattern Recognition, 2020, 107, 107470.	5.1	58
70	Least squares support vector machines with tuning based on chaotic differential evolution approach applied to the identification of a thermal process. Expert Systems With Applications, 2012, 39, 4805-4812.	4.4	57
71	MESFET DC model parameter extraction using Quantum Particle Swarm Optimization. Microelectronics Reliability, 2009, 49, 660-666.	0.9	56
72	Multiobjective scatter search approach with new combination scheme applied to solve environmental/economic dispatch problem. Energy, 2013, 53, 14-21.	4.5	56

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73	Pressure prediction of a spark ignition single cylinder engine using optimized extreme learning machine models. <i>Applied Energy</i> , 2019, 249, 204-221.	5.1	55
74	Model-free adaptive control design using evolutionary-neural compensator. <i>Expert Systems With Applications</i> , 2010, 37, 499-508.	4.4	54
75	Design of heat exchangers using a novel multiobjective free search differential evolution paradigm. <i>Applied Thermal Engineering</i> , 2016, 94, 170-177.	3.0	54
76	Production and characterization of a thermostable glucoamylase from <i>Streptosporangium</i> sp. endophyte of maize leaves. <i>Bioresource Technology</i> , 2002, 83, 105-109.	4.8	53
77	Electricity Price Forecasting Based on Self-Adaptive Decomposition and Heterogeneous Ensemble Learning. <i>Energies</i> , 2020, 13, 5190.	1.6	51
78	Multi-objective adaptive differential evolution for SVM/SVR hyperparameters selection. <i>Pattern Recognition</i> , 2021, 110, 107649.	5.1	51
79	Multiobjective Electromagnetic Optimization Based on a Nondominated Sorting Genetic Approach With a Chaotic Crossover Operator. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 1078-1081.	1.2	50
80	Time series forecasting using ensemble learning methods for emergency prevention in hydroelectric power plants with dam. <i>Electric Power Systems Research</i> , 2022, 202, 107584.	2.1	50
81	Calculation of the giant magnetocaloric effect in the $MnFePO_{0.45}As_{0.55}$ compound. <i>Physical Review B</i> , 2004, 70, .	1.1	49
82	Reliability“redundancy optimization by means of a chaotic differential evolution approach. <i>Chaos, Solitons and Fractals</i> , 2009, 41, 594-602.	2.5	49
83	Hybrid multi-stage decomposition with parametric model applied to wind speed forecasting in Brazilian Northeast. <i>Renewable Energy</i> , 2021, 164, 1508-1526.	4.3	49
84	Computational intelligence approaches and linear models in case studies of forecasting exchange rates. <i>Expert Systems With Applications</i> , 2007, 33, 816-823.	4.4	47
85	Novel Gaussian quantum-behaved particle swarm optimiser applied to electromagnetic design. <i>IET Science, Measurement and Technology</i> , 2007, 1, 290-294.	0.9	47
86	Improved quantum-inspired evolutionary algorithm with diversity information applied to economic dispatch problem with prohibited operating zones. <i>Energy Conversion and Management</i> , 2011, 52, 8-14.	4.4	45
87	Electrical Insulator Fault Forecasting Based on a Wavelet Neuro-Fuzzy System. <i>Energies</i> , 2020, 13, 484.	1.6	45
88	Co-evolutionary particle swarm optimization for min-max problems using Gaussian distribution. , 0, , .		44
89	A V-Shaped Binary Crow Search Algorithm for Feature Selection. , 2018, , .		44
90	Hybrid Wavelet Stacking Ensemble Model for Insulators Contamination Forecasting. <i>IEEE Access</i> , 2021, 9, 66387-66397.	2.6	44

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91	Adaptive cascade control of a hydraulic actuator with an adaptive dead-zone compensation and optimization based on evolutionary algorithms. <i>Expert Systems With Applications</i> , 2011, 38, 12262-12269.	4.4	41
92	Multiobjective Cuckoo Search Algorithm Based on Duffing's Oscillator Applied to Jiles-Atherton Vector Hysteresis Parameters Estimation. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 1745-1748.	1.2	41
93	PSO-E: Particle Swarm with Exponential Distribution. , 0, , .		40
94	Cascaded evolutionary algorithm for nonlinear system identification based on correlation functions and radial basis functions neural networks. <i>Mechanical Systems and Signal Processing</i> , 2016, 68-69, 378-393.	4.4	40
95	Novel hybrid model based on echo state neural network applied to the prediction of stock price return volatility. <i>Expert Systems With Applications</i> , 2021, 184, 115490.	4.4	40
96	A comparison between three short-term shoreline prediction models. <i>Ocean and Coastal Management</i> , 2012, 69, 102-110.	2.0	39
97	A software tool for teaching of particle swarm optimization fundamentals. <i>Advances in Engineering Software</i> , 2008, 39, 877-887.	1.8	38
98	Multiobjective Particle Swarm Approach for the Design of a Brushless DC Wheel Motor. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 2994-2997.	1.2	38
99	A Multiobjective Gaussian Particle Swarm Approach Applied to Electromagnetic Optimization. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 3289-3292.	1.2	38
100	Modified Social-Spider Optimization Algorithm Applied to Electromagnetic Optimization. <i>IEEE Transactions on Magnetics</i> , 2016, 52, 1-4.	1.2	38
101	Predictive Controller Tuning Using Modified Particle Swarm Optimization Based on Cauchy and Gaussian Distributions. , 2005, , 287-298.		37
102	Agribusiness time series forecasting using Wavelet neural networks and metaheuristic optimization: An analysis of the soybean sack price and perishable products demand. <i>International Journal of Production Economics</i> , 2018, 203, 174-189.	5.1	37
103	Multi-objective lightning search algorithm applied to wind farm layout optimization. <i>Energy</i> , 2021, 216, 119214.	4.5	37
104	PID control design for chaotic synchronization using a tribes optimization approach. <i>Chaos, Solitons and Fractals</i> , 2009, 42, 634-640.	2.5	36
105	A Modified Imperialist Competitive Algorithm for Optimization in Electromagnetics. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 579-582.	1.2	35
106	Novel Gamma Differential Evolution Approach for Multiobjective Transformer Design Optimization. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 2121-2124.	1.2	35
107	Metaheuristic inspired on owls behavior applied to heat exchangers design. <i>Thermal Science and Engineering Progress</i> , 2019, 14, 100431.	1.3	35
108	A modified ant colony optimization algorithm based on differential evolution for chaotic synchronization. <i>Expert Systems With Applications</i> , 2010, 37, 4198-4203.	4.4	34



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109	Firefly as a novel swarm intelligence variable selection method in spectroscopy. <i>Analytica Chimica Acta</i> , 2014, 852, 20-27.	2.6	34
110	Correction to "Combining of Chaotic Differential Evolution and Quadratic Programming for Economic Dispatch Optimization with Valve-Point Effect". <i>IEEE Transactions on Power Systems</i> , 2006, 21, 1465-1465.	4.6	33
111	Image forgery detection by semi-automatic wavelet soft-Thresholding with error level analysis. <i>Expert Systems With Applications</i> , 2017, 85, 348-356.	4.4	33
112	Chaotic artificial immune approach applied to economic dispatch of electric energy using thermal units. <i>Chaos, Solitons and Fractals</i> , 2009, 40, 2376-2383.	2.5	32
113	A hybrid shuffled complex evolution approach based on differential evolution for unconstrained optimization. <i>Applied Mathematics and Computation</i> , 2011, 217, 5822-5829.	1.4	32
114	Solution of Jiles's Atherton vector hysteresis parameters estimation by modified Differential Evolution approaches. <i>Expert Systems With Applications</i> , 2012, 39, 2021-2025.	4.4	32
115	Multiobjective Exponential Particle Swarm Optimization Approach Applied to Hysteresis Parameters Estimation. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 283-286.	1.2	32
116	Multiband Patch Antenna Design Using Nature-Inspired Optimization Method. <i>IEEE Open Journal of Antennas and Propagation</i> , 2021, 2, 151-162.	2.5	32
117	Computational intelligence approach to PID controller design using the universal model. <i>Information Sciences</i> , 2010, 180, 3980-3991.	4.0	31
118	An enhanced bat algorithm approach for reducing electrical power consumption of air conditioning systems based on differential operator. <i>Applied Thermal Engineering</i> , 2016, 99, 834-840.	3.0	31
119	Nonlinear identification using a B-spline neural network and chaotic immune approaches. <i>Mechanical Systems and Signal Processing</i> , 2009, 23, 2418-2434.	4.4	30
120	Self-organizing migration algorithm applied to machining allocation of clutch assembly. <i>Mathematics and Computers in Simulation</i> , 2009, 80, 427-435.	2.4	30
121	MOBOpt – multi-objective Bayesian optimization. <i>SoftwareX</i> , 2020, 12, 100520.	1.2	30
122	A GMDH polynomial neural network-based method to predict approximate three-dimensional structures of polypeptides. <i>Expert Systems With Applications</i> , 2012, 39, 12268-12279.	4.4	29
123	Multiobjective Optimization of Transformer Design Using a Chaotic Evolutionary Approach. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 669-672.	1.2	29
124	Nonlinear black-box system identification through coevolutionary algorithms and radial basis function artificial neural networks. <i>Applied Soft Computing Journal</i> , 2020, 87, 105990.	4.1	28
125	Electromagnetic Optimization Using a Cultural Self-Organizing Migrating Algorithm Approach Based on Normative Knowledge. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1446-1449.	1.2	27
126	Chaotic synchronization using PID control combined with population based incremental learning algorithm. <i>Expert Systems With Applications</i> , 2010, 37, 5347-5352.	4.4	27



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127	Bio-inspired optimization algorithms for real underwater image restoration. Signal Processing: Image Communication, 2019, 77, 49-65.	1.8	27
128	Multi-step ahead meningitis case forecasting based on decomposition and multi-objective optimization methods. Journal of Biomedical Informatics, 2020, 111, 103575.	2.5	27
129	Temperature dependence of coercive field of ZnFe <sub>2</sub> O <sub>4</sub> nanoparticles. Journal of Applied Physics, 2012, 111, .	1.1	26
130	A population-based simulated annealing algorithm for global optimization. , 2016, , .		26
131	Magnetocaloric effect of the ternary Dy, Ho and Er platinum gallides. Journal of Magnetism and Magnetic Materials, 2016, 401, 1088-1092.	1.0	25
132	Multiobjective Krill Herd Algorithm for Electromagnetic Optimization. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	25
133	Bayesian Optimized Echo State Network Applied to Short-Term Load Forecasting. Energies, 2020, 13, 2390.	1.6	25
134	Optimization of drop ejection frequency in EHD inkjet printing system using an improved Firefly Algorithm. Applied Soft Computing Journal, 2020, 94, 106438.	4.1	25
135	Integrative numerical modeling and thermodynamic optimal design of counter-flow plate-fin heat exchanger applying neural networks. International Journal of Heat and Mass Transfer, 2020, 159, 120097.	2.5	25
136	Wind turbines anomaly detection based on power curves and ensemble learning. IET Renewable Power Generation, 2020, 14, 4086-4093.	1.7	25
137	Design of robust PSS in multimachine power systems using backtracking search algorithm. , 2015, , .		24
138	Using two improved particle swarm optimization variants for optimization of daily electrical power consumption in multi-chiller systems. Applied Thermal Engineering, 2015, 89, 640-646.	3.0	24
139	Thermodynamic optimization design for plate-fin heat exchangers by Tsallis JADE. International Journal of Thermal Sciences, 2017, 113, 136-144.	2.6	24
140	Comparative study of SQP and metaheuristics for robotic manipulator design. Applied Numerical Mathematics, 2008, 58, 1396-1412.	1.2	23
141	Non-Dominated Sorting Genetic Algorithm Based on Reinforcement Learning to Optimization of Broad-Band Reflector Antennas Satellite. IEEE Transactions on Magnetics, 2012, 48, 767-770.	1.2	23
142	Supply chain optimisation using evolutionary algorithms. International Journal of Computer Applications in Technology, 2008, 31, 158.	0.3	22
143	Generalised minimum variance control state-space design. IET Control Theory and Applications, 2011, 5, 1709-1715.	1.2	22
144	Modified crow search approach applied to electromagnetic optimization. , 2016, , .		22

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145	Multi-Objective Ensemble Model for Short-Term Price Forecasting in Corn Price Time Series. , 2019, , .		22
146	Discrete differential evolution metaheuristics for permutation flow shop scheduling problems. Computers and Industrial Engineering, 2022, 166, 107956.	3.4	22
147	Economic dispatch optimization using hybrid chaotic particle swarm optimizer. , 2007, , .		21
148	Estimation of apparent thermal conductivity of carrot purÃ©e during freezing using inverse problem. International Journal of Food Science and Technology, 2009, 44, 1292-1303.	1.3	21
149	Nonlinear model identification of an experimental ball-and-tube system using a genetic programming approach. Mechanical Systems and Signal Processing, 2009, 23, 1434-1446.	4.4	21
150	A hybrid shuffled complex evolution approach with pattern search for unconstrained optimization. Mathematics and Computers in Simulation, 2011, 81, 1901-1909.	2.4	21
151	Population's variance-based Adaptive Differential Evolution for real parameter optimization. , 2013, , .		21
152	Magnetic and structural investigations on La <sub>0.6</sub> Sr <sub>0.4</sub> MnO <sub>3</sub> nanostructured manganite: Evidence of a ferrimagnetic shell. Journal of Solid State Chemistry, 2014, 219, 87-92.	1.4	21
153	Note: Experimental setup for measuring the barocaloric effect in polymers: Application to natural rubber. Review of Scientific Instruments, 2017, 88, 046103.	0.6	21
154	A tuning strategy for multivariable PI and PID controllers using differential evolution combined with chaotic Zaslavskii map. Expert Systems With Applications, 2011, , .	4.4	20
155	Demand forecasting based on natural computing approaches applied to the foodstuff retail segment. Journal of Retailing and Consumer Services, 2016, 31, 174-181.	5.3	20
156	Extreme gradient boosting model based on improved Jaya optimizer applied to forecasting energy consumption in residential buildings. Evolving Systems, 2022, 13, 577-588.	2.4	20
157	Hardware opposition-based PSO applied to mobile robot controllers. Engineering Applications of Artificial Intelligence, 2014, 28, 64-77.	4.3	19
158	Volumetric efficiency optimization of a single-cylinder D.I. diesel engine using differential evolution algorithm. Applied Thermal Engineering, 2016, 108, 660-669.	3.0	19
159	Power system stability enhancement by designing optimal PSS employing backtracking search algorithm. , 2017, , .		19
160	Angular dependence of the bulk nucleation fieldH <sub>c2</sub> of alignedMgB <sub>2</sub> crystallites. Physical Review B, 2001, 64, .	1.1	18
161	Particle swarm optimization (PSO) applied to fuzzy modeling in a thermal-vacuum system. , 2005, , .		18
162	A Chaotic Approach of Differential Evolution Optimization Applied to Loudspeaker Design Problem. IEEE Transactions on Magnetics, 2012, 48, 751-754.	1.2	18

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163	Minimizing computational cost and energy demand of building lighting systems: A real time experiment using a modified competition over resources algorithm. <i>Energy and Buildings</i> , 2017, 139, 108-123.	3.1	18
164	Discrete Differential Evolution with local search to solve the Traveling Salesman Problem: Fundamentals and case studies. , 2008, , .		17
165	Comparison between two FPGA implementations of the Particle Swarm Optimization algorithm for high-performance embedded applications. , 2010, , .		17
166	Modified differential evolution approach for optimization of planar parallel manipulators force capabilities. <i>Expert Systems With Applications</i> , 2012, 39, 6150-6156.	4.4	17
167	Identification of temperature and moisture content fields using a combined neural network and clustering method approach. <i>International Communications in Heat and Mass Transfer</i> , 2009, 36, 304-313.	2.9	16
168	Hardware Architecture for Particle Swarm Optimization Using Floating-Point Arithmetic. , 2009, , .		16
169	Biogeography-based Optimization approach based on Predator-Prey concepts applied to path planning of 3-DOF robot manipulator. , 2010, , .		16
170	An Efficient Particle Swarm Optimization Approach Based on Cultural Algorithm Applied to Mechanical Design. , 0, , .		15
171	Particle Swarm Optimization with Quasi-Newton Local Search for Solving Economic Dispatch Problem. , 2006, , .		15
172	Tribes Optimization Algorithm Applied to the Loney's Solenoid. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 1526-1529.	1.2	15
173	A Multiobjective Firefly Approach Using Beta Probability Distribution for Electromagnetic Optimization Problems. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 2085-2088.	1.2	15
174	A genetic programming approach based on Lévy flight applied to nonlinear identification of a poppet valve. <i>Applied Mathematical Modelling</i> , 2014, 38, 1729-1736.	2.2	15
175	Influence of egg pre-storage heating period and storage length on incubation results. <i>Brazilian Journal of Poultry Science</i> , 2008, 10, 17-22.	0.3	14
176	Improved Bacterial Foraging Strategy Applied to TEAM Workshop Benchmark Problem. <i>IEEE Transactions on Magnetics</i> , 2010, 46, 2903-2906.	1.2	14
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