Sancho Salcedo-Sanz

List of Publications by Year
in descending order

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315 papers	8,275 citations	43973 48 h-index	69108 77 g-index
327 all docs	327 docs citations	327 times ranked	6467 citing authors

#	Article	IF	Citations
1	Bio-inspired computation: Where we stand and what's next. Swarm and Evolutionary Computation, 2019, 48, 220-250.	4.5	430
2	A survey on applications of the harmony search algorithm. Engineering Applications of Artificial Intelligence, 2013, 26, 1818-1831.	4.3	317
3	Predicting compressive strength of lightweight foamed concrete using extreme learning machine model. Advances in Engineering Software, 2018, 115, 112-125.	1.8	288
4	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. Energies, 2015, 8, 9211-9265.	1.6	195
5	Short term wind speed prediction based on evolutionary support vector regression algorithms. Expert Systems With Applications, 2011, 38, 4052-4057.	4.4	184
6	Hybridizing the fifth generation mesoscale model with artificial neural networks for short-term wind speed prediction. Renewable Energy, 2009, 34, 1451-1457.	4.3	176
7	Daily global solar radiation prediction based on a hybrid Coral Reefs Optimization â€“ Extreme Learning Machine approach. Solar Energy, 2014, 105, 91-98.	2.9	156
8	Feature selection in wind speed prediction systems based on a hybrid coral reefs optimization â€“ Extreme learning machine approach. Energy Conversion and Management, 2014, 87, 10-18.	4.4	143
9	Support vector machines in engineering: an overview. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2014, 4, 234-267.	4.6	137
10	The Coral Reefs Optimization Algorithm: A Novel Metaheuristic for Efficiently Solving Optimization Problems. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	136
11	Seeding evolutionary algorithms with heuristics for optimal wind turbines positioning in wind farms. Renewable Energy, 2011, 36, 2838-2844.	4.3	126
12	Modern meta-heuristics based on nonlinear physics processes: A review of models and design procedures. Physics Reports, 2016, 655, 1-70.	10.3	124
13	A new grouping genetic algorithm for clustering problems. Expert Systems With Applications, 2012, 39, 9695-9703.	4.4	121
14	Feature selection in machine learning prediction systems for renewable energy applications. Renewable and Sustainable Energy Reviews, 2018, 90, 728-741.	8.2	114
15	Machine learning information fusion in Earth observation: A comprehensive review of methods, applications and data sources. Information Fusion, 2020, 63, 256-272.	11.7	102
16	A mixed neural-genetic algorithm for the broadcast scheduling problem. IEEE Transactions on Wireless Communications, 2003, 2, 277-283.	6.1	98
17	A novel Grouping Genetic Algorithmâ€“Extreme Learning Machine approach for global solar radiation prediction from numerical weather models inputs. Solar Energy, 2016, 132, 129-142.	2.9	95
18	Accurate short-term wind speed prediction by exploiting diversity in input data using banks of artificial neural networks. Neurocomputing, 2009, 72, 1336-1341.	3.5	93

#	Article	IF	Citations
19	Machine learning regressors for solar radiation estimation from satellite data. Solar Energy, 2019, 183, 768-775.	2.9	93
20	A survey of repair methods used as constraint handling techniques in evolutionary algorithms. Computer Science Review, 2009, 3, 175-192.	10.2	91
21	An efficient neuro-evolutionary hybrid modelling mechanism for the estimation of daily global solar radiation in the Sunshine State of Australia. Applied Energy, 2018, 209, 79-94.	5.1	90
22	A Review of Classification Problems and Algorithms in Renewable Energy Applications. Energies, 2016, 9, 607.	1.6	87
23	Significant wave height and energy flux prediction for marine energy applications: A grouping genetic algorithm â€“ Extreme Learning Machine approach. Renewable Energy, 2016, 97, 380-389.	4.3	82
24	Prediction of Daily Global Solar Irradiation Using Temporal Gaussian Processes. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1936-1940.	1.4	79
25	Accurate precipitation prediction with support vector classifiers: A study including novel predictive variables and observational data. Atmospheric Research, 2014, 139, 128-136.	1.8	79
26	A Hybrid Hopfield Network-Genetic Algorithm Approach for the Terminal Assignment Problem. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2343-2353.	5.5	77
27	Offshore wind farm design with the Coral Reefs Optimization algorithm. Renewable Energy, 2014, 63, 109-115.	4.3	76
28	Significant wave height estimation using SVR algorithms and shadowing information from simulated and real measured X-band radar images of the sea surface. Ocean Engineering, 2015, 101, 244-253.	1.9	73
29	Monthly prediction of air temperature in Australia and New Zealand with machine learning algorithms. Theoretical and Applied Climatology, 2016, 125, 13-25.	1.3	72
30	Local models-based regression trees for very short-term wind speed prediction. Renewable Energy, 2015, 81, 589-598.	4.3	70
31	Prediction of hourly O3 concentrations using support vector regression algorithms. Atmospheric Environment, 2010, 44, 4481-4488.	1.9	69
32	Prediction of daily maximum temperature using a support vector regression algorithm. Renewable Energy, 2011, 36, 3054-3060.	4.3	69
33	A Coral Reefs Optimization algorithm with Harmony Search operators for accurate wind speed prediction. Renewable Energy, 2015, 75, 93-101.	4.3	69
34	Computational intelligence in wave energy: Comprehensive review and case study. Renewable and Sustainable Energy Reviews, 2016, 58, 1223-1246.	8.2	67
35	Efficient aerodynamic design through evolutionary programming and support vector regression algorithms. Expert Systems With Applications, 2012, 39, 10700-10708.	4.4	61
36	A Hybrid Hopfield Network-Simulated Annealing Approach for Frequency Assignment in Satellite Communications Systems. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1108-1116.	5.5	60

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37	Genetic programming for the prediction of insolvency in non-life insurance companies. Computers and Operations Research, 2005, 32, 749-765.	2.4	60
38	Improving the training time of support vector regression algorithms through novel hyper-parameters search space reductions. Neurocomputing, 2009, 72, 3683-3691.	3.5	59
39	Evolutionary artificial neural networks for accurate solar radiation prediction. Energy, 2020, 210, 118374.	4.5	58
40	Bayesian optimization of a hybrid system for robust ocean wave features prediction. Neurocomputing, 2018, 275, 818-828.	3.5	56
41	Significant wave height and energy flux range forecast with machine learning classifiers. Engineering Applications of Artificial Intelligence, 2015, 43, 44-53.	4.3	55
42	Enhancing Genetic Feature Selection Through Restricted Search and Walsh Analysis. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2004, 34, 398-406.	3.3	54
43	Multi-task learning for the prediction of wind power ramp events with deep neural networks. Neural Networks, 2020, 123, 401-411.	3.3	54
44	Accurate estimation of significant wave height with Support Vector Regression algorithms and marine radar images. Coastal Engineering, 2016, 114, 233-243.	1.7	52
45	A review on the coral reefs optimization algorithm: new development lines and current applications. Progress in Artificial Intelligence, 2017, 6, 1-15.	1.5	52
46	Shortâ€term wind speed prediction in wind farms based on banks of support vector machines. Wind Energy, 2011, 14, 193-207.	1.9	51
47	Optimal discharge scheduling of energy storage systems in MicroGrids based on hyper-heuristics. Renewable Energy, 2015, 83, 13-24.	4.3	50
48	Hybridizing Extreme Learning Machines and Genetic Algorithms to select acoustic features in vehicle classification applications. Neurocomputing, 2015, 152, 58-68.	3.5	50
49	Hybrid meta-heuristics algorithms for task assignment in heterogeneous computing systems. Computers and Operations Research, 2006, 33, 820-835.	2.4	49
50	Stacked LSTM Sequence-to-Sequence Autoencoder with Feature Selection for Daily Solar Radiation Prediction: A Review and New Modeling Results. Energies, 2022, 15, 1061.	1.6	48
51	Team formation based on group technology: A hybrid grouping genetic algorithm approach. Computers and Operations Research, 2011, 38, 484-495.	2.4	44
52	A multi-objective grouping Harmony Search algorithm for the optimal distribution of 24-hour medical emergency units. Expert Systems With Applications, 2013, 40, 2343-2349.	4.4	44
53	A Multi-Objective Genetic Algorithm for overlapping community detection based on edge encoding. Information Sciences, 2018, 462, 290-314.	4.0	44
54	Coral Reef Optimization with substrate layers for medical Image Registration. Swarm and Evolutionary Computation, 2018, 42, 138-159.	4.5	40

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55	Machine learning regression and classification methods for fog events prediction. Atmospheric Research, 2022, 272, 106157.	1.8	40
56	A novel Coral Reefs Optimization algorithm with substrate layers for optimal battery scheduling optimization in micro-grids. Soft Computing, 2016, 20, 4287-4300.	2.1	39
57	A hybrid grouping genetic algorithm for assigning students to preferred laboratory groups. Expert Systems With Applications, 2009, 36, 7234-7241.	4.4	38
58	One-way urban traffic reconfiguration using a multi-objective harmony search approach. Expert Systems With Applications, 2013, 40, 3341-3350.	4.4	38
59	Applying the coral reefs optimization algorithm for solving unequal area facility layout problems. Expert Systems With Applications, 2019, 138, 112819.	4.4	38
60	Structures vibration control via Tuned Mass Dampers using a co-evolution Coral Reefs Optimization algorithm. Journal of Sound and Vibration, 2017, 393, 62-75.	2.1	37
61	Hybrid deep CNN-SVR algorithm for solar radiation prediction problems in Queensland, Australia. Engineering Applications of Artificial Intelligence, 2022, 112, 104860.	4.3	35
62	Near optimal citywide WiFi network deployment using a hybrid grouping genetic algorithm. Expert Systems With Applications, 2011, 38, 9543-9556.	4.4	34
63	A hybrid genetic algorithmâ€"extreme learning machine approach for accurate significant wave height reconstruction. Ocean Modelling, 2015, 92, 115-123.	1.0	34
64	A Hybrid Neural-Genetic Algorithm for the Frequency Assignment Problem in Satellite Communications. Applied Intelligence, 2005, 22, 207-217.	3.3	33
65	Evaluation of dimensionality reduction methods applied to numerical weather models for solar radiation forecasting. Engineering Applications of Artificial Intelligence, 2018, 69, 157-167.	4.3	32
66	Prediction of low-visibility events due to fog using ordinal classification. Atmospheric Research, 2018, 214, 64-73.	1.8	32
67	Boosting solar radiation predictions with global climate models, observational predictors and hybrid deep-machine learning algorithms. Applied Energy, 2022, 316, 119063.	5.1	32
68	A two-phase heuristic evolutionary algorithm for personalizing course timetables: a case study in a Spanish university. Computers and Operations Research, 2005, 32, 1761-1776.	2.4	31
69	Accurate local very short-term temperature prediction based on synoptic situation Support Vector Regression banks. Atmospheric Research, 2012, 107, 1-8.	1.8	30
70	A comparative study of two hybrid grouping evolutionary techniques for the capacitated P-median problem. Computers and Operations Research, 2012, 39, 2214-2222.	2.4	30
71	Simultaneous modelling of rainfall occurrence and amount using a hierarchical nominalâ€"ordinal support vector classifier. Engineering Applications of Artificial Intelligence, 2014, 34, 199-207.	4.3	30
72	Evolutionary computation approaches for real offshore wind farm layout: A case study in northern Europe. Expert Systems With Applications, 2013, 40, 6292-6297.	4.4	29

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73	Efficient Prediction of Low-Visibility Events at Airports Using Machine-Learning Regression. Boundary-Layer Meteorology, 2017, 165, 349-370.	1.2	29
74	An efficient multi-objective evolutionary approach for solving the operation of multi-reservoir system scheduling in hydro-power plants. Expert Systems With Applications, 2021, 185, 115638.	4.4	29
75	Randomization-based machine learning in renewable energy prediction problems: Critical literature review, new results and perspectives. Applied Soft Computing Journal, 2022, 118, 108526.	4.1	29
76	Very fast training neural-computation techniques for real measure-correlate-predict wind operations in wind farms. Journal of Wind Engineering and Industrial Aerodynamics, 2013, 116, 49-60.	1.7	28
77	A CRO-species optimization scheme for robust global solar radiation statistical downscaling. Renewable Energy, 2017, 111, 63-76.	4.3	28
78	Optimizing the Structure of Distribution Smart Grids with Renewable Generation against Abnormal Conditions: A Complex Networks Approach with Evolutionary Algorithms. Energies, 2017, 10, 1097.	1.6	28
79	Analysis and Prediction of Dammed Water Level in a Hydropower Reservoir Using Machine Learning and Persistence-Based Techniques. Water (Switzerland), 2020, 12, 1528.	1.2	28
80	Optimal switch location in mobile communication networks using hybrid genetic algorithms. Applied Soft Computing Journal, 2008, 8, 1486-1497.	4.1	27
81	Hybridizing logistic regression with product unit and RBF networks for accurate detection and prediction of banking crises. Omega, 2010, 38, 333-344.	3.6	27
82	Evaluating the Internationalization Success of Companies Through a Hybrid Grouping Harmony Searchâ€"Extreme Learning Machine Approach. IEEE Journal on Selected Topics in Signal Processing, 2012, 6, 388-398.	7.3	27
83	A Coral Reefs Optimization algorithm for optimal mobile network deployment with electromagnetic pollution control criterion. Applied Soft Computing Journal, 2014, 24, 239-248.	4.1	27
84	A coral reefs optimization algorithm with substrate layers and local search for large scale global optimization. , 2016, , .		27
85	Massive missing data reconstruction in ocean buoys with evolutionary product unit neural networks. Ocean Engineering, 2016, 117, 292-301.	1.9	27
86	Improved Complete Ensemble Empirical Mode Decomposition with Adaptive Noise Deep Residual model for short-term multi-step solar radiation prediction. Renewable Energy, 2022, 190, 408-424.	4.3	27
87	Sizing and maintenance visits optimization of a hybrid photovoltaic-hydrogen stand-alone facility using evolutionary algorithms. Renewable Energy, 2014, 66, 402-413.	4.3	26
88	Robust total energy demand estimation with a hybrid Variable Neighborhood Search â€" Extreme Learning Machine algorithm. Energy Conversion and Management, 2016, 123, 445-452.	4.4	26
89	Robust estimation of wind power ramp events with reservoir computing. Renewable Energy, 2017, 111, 428-437.	4.3	26
90	One-year-ahead energy demand estimation from macroeconomic variables using computational intelligence algorithms. Energy Conversion and Management, 2015, 99, 62-71.	4.4	25

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91	A statistically-driven Coral Reef Optimization algorithm for optimal size reduction of time series. Applied Soft Computing Journal, 2018, 63, 139-153.	4.1	25
92	Drought Prediction With Standardized Precipitation and Evapotranspiration Index and Support Vector Regression Models. , 2018, , 151-174.		25
93	A novel Island Model based on Coral Reefs Optimization algorithm for solving the unequal area facility layout problem. Engineering Applications of Artificial Intelligence, 2020, 89, 103445.	4.3	25
94	A random-key encoded harmony search approach for energy-efficient production scheduling with shared resources. Engineering Optimization, 2015, 47, 1481-1496.	1.5	24
95	Active vibration control design using the Coral Reefs Optimization with Substrate Layer algorithm. Engineering Structures, 2018, 157, 14-26.	2.6	24
96	Design of a Multi-Band Microstrip Textile Patch Antenna for LTE and 5G Services with the CRO-SL Ensemble. Applied Sciences (Switzerland), 2020, 10, 1168.	1.3	24
97	Persistence in complex systems. Physics Reports, 2022, 957, 1-73.	10.3	24
98	An incremental-encoding evolutionary algorithm for color reduction in images. Integrated Computer-Aided Engineering, 2010, 17, 261-269.	2.5	23
99	A novel grouping harmony search algorithm for the multiple-type access node location problem. Expert Systems With Applications, 2012, 39, 5262-5270.	4.4	23
100	A hybrid harmony search algorithm for the spread spectrum radar polyphase codes design problem. Expert Systems With Applications, 2012, 39, 11089-11093.	4.4	23
101	An evolutionary-based hyper-heuristic approach for optimal construction of group method of data handling networks. Information Sciences, 2013, 247, 94-108.	4.0	23
102	Evolutionary Design of Digital Filters With Application to Subband Coding and Data Transmission. IEEE Transactions on Signal Processing, 2007, 55, 1193-1203.	3.2	22
103	Assignment of cells to switches in a cellular mobile network using a hybrid Hopfield network-genetic algorithm approach. Applied Soft Computing Journal, 2008, 8, 216-224.	4.1	22
104	Wind Power Ramp Events Prediction with Hybrid Machine Learning Regression Techniques and Reanalysis Data. Energies, 2017, 10, 1784.	1.6	22
105	Efficient fog prediction with multi-objective evolutionary neural networks. Applied Soft Computing Journal, 2018, 70, 347-358.	4.1	22
106	Optimal Design of a Planar Textile Antenna for Industrial Scientific Medical (ISM) 2.4 GHz Wireless Body Area Networks (WBAN) with the CRO-SL Algorithm. Sensors, 2018, 18, 1982.	2.1	22
107	Hydro-power production capacity prediction based on machine learning regression techniques. Knowledge-Based Systems, 2021, 222, 107012.	4.0	22
108	HYBRID PIFA-PATCH ANTENNA OPTIMIZED BY EVOLUTIONARY PROGRAMMING. Progress in Electromagnetics Research, 2010, 108, 221-234.	1.6	21

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109	On the design of a novel two-objective harmony search approach for distance- and connectivity-based localization in wireless sensor networks. Engineering Applications of Artificial Intelligence, 2013, 26, 669-676.	4.3	20
110	Joint optimization of a Microgrid's structure design and its operation using a two-steps evolutionary algorithm. Energy, 2016, 94, 775-785.	4.5	20
111	DRED: An evolutionary diversity generation method for concept drift adaptation in online learning environments. Applied Soft Computing Journal, 2018, 68, 693-709.	4.1	20
112	A Coral Reefs Optimization algorithm with substrate layer for robust Wi-Fi channel assignment. Soft Computing, 2019, 23, 12621-12640.	2.1	20
113	Persistence Analysis and Prediction of Low-Visibility Events at Valladolid Airport, Spain. Symmetry, 2020, 12, 1045.	1.1	20
114	Feature selection methods involving support vector machines for prediction of insolvency in non-life insurance companies. Intelligent Systems in Accounting, Finance and Management, 2004, 12, 261-281.	2.8	19
115	A decision support system for the automatic management of keep-clear signs based on support vector machines and geographic information systems. Expert Systems With Applications, 2010, 37, 767-773.	4.4	19
116	Extraction of synoptic pressure patterns for long-term wind speed estimation in wind farms using evolutionary computing. Energy, 2011, 36, 1571-1581.	4.5	19
117	Iterative power and subcarrier allocation in rate-constrained orthogonal multicarrier downlink systems based on hybrid harmony search heuristics. Engineering Applications of Artificial Intelligence, 2011, 24, 748-756.	4.3	19
118	A portable and scalable algorithm for a class of constrained combinatorial optimization problems. Computers and Operations Research, 2005, 32, 2671-2687.	2.4	18
119	Ordinal and nominal classification of wind speed from synoptic pressurepatterns. Engineering Applications of Artificial Intelligence, 2013, 26, 1008-1015.	4.3	18
120	Addressing Unequal Area Facility Layout Problems with the Coral Reef Optimization algorithm with Substrate Layers. Engineering Applications of Artificial Intelligence, 2020, 93, 103697.	4.3	18
121	Particle swarm grammatical evolution for energy demand estimation. Energy Science and Engineering, 2020, 8, 1068-1079.	1.9	18
122	Optimal design of Microgridâ€™s network topology and location of the distributed renewable energy resources using the Harmony Search algorithm. Soft Computing, 2019, 23, 6495-6510.	2.1	17
123	Optimal Microgrid Topology Design and Siting of Distributed Generation Sources Using a Multi-Objective Substrate Layer Coral Reefs Optimization Algorithm. Sustainability, 2019, 11, 169.	1.6	17
124	Optimal Generation Scheduling in Hydro-Power Plants with the Coral Reefs Optimization Algorithm. Energies, 2021, 14, 2443.	1.6	17
125	Teaching Advanced Features of Evolutionary Algorithms Using Japanese Puzzles. IEEE Transactions on Education, 2007, 50, 151-156.	2.0	16
126	Wind speed reconstruction from synoptic pressure patterns using an evolutionary algorithm. Applied Energy, 2012, 89, 347-354.	5.1	16

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127	Near-optimal selection of representative measuring points for robust temperature field reconstruction with the CRO-SL and analogue methods. Global and Planetary Change, 2019, 178, 15-34.	1.6	16
128	A study on the impact of easements in the deployment of wind farms near airport facilities. Renewable Energy, 2019, 135, 566-588.	4.3	16
129	A comparison of memetic algorithms for the spread spectrum radar polyphase codes design problem. Engineering Applications of Artificial Intelligence, 2008, 21, 1233-1238.	4.3	15
130	Efficient citywide planning of open WiFi access networks using novel grouping harmony searchheuristics. Engineering Applications of Artificial Intelligence, 2013, 26, 1124-1130.	4.3	15
131	Significant wave height and energy flux estimation with a Genetic Fuzzy System for regression. Ocean Engineering, 2018, 160, 33-44.	1.9	15
132	Ordinal regression algorithms for the analysis of convective situations over Madrid-Barajas airport. Atmospheric Research, 2020, 236, 104798.	1.8	15
133	Hybrid Evolutionary Approaches to Terminal Assignment in Communications Networks. , 2005, , 129-159.		15
134	Multi-parametric Gaussian Kernel Function Optimization for Îµ-SVMr Using a Genetic Algorithm. Lecture Notes in Computer Science, 2011, , 113-120.	1.0	15
135	Automated generation and visualization of picture-logic puzzles. Computers and Graphics, 2007, 31, 750-760.	1.4	14
136	Evolutionary product unit neural networks for short-term wind speed forecasting in wind farms. Neural Computing and Applications, 2012, 21, 993-1005.	3.2	14
137	A coralâ€reef optimization algorithm for the optimal service distribution problem in mobile radio access networks. Transactions on Emerging Telecommunications Technologies, 2014, 25, 1057-1069.	2.6	14
138	An evolutionary-based hyper-heuristic approach for the Jawbreaker puzzle. Applied Intelligence, 2014, 40, 404-414.	3.3	14
139	On the application of multi-objective harmony search heuristics to the predictive deployment of firefighting aircrafts: a realistic case study. International Journal of Bio-Inspired Computation, 2015, 7, 270.	0.6	14
140	Spatio-temporal analysis of wind resource in the Iberian Peninsula with data-coupled clustering. Renewable and Sustainable Energy Reviews, 2018, 81, 2684-2694.	8.2	14
141	A novel multi-objective Interactive Coral Reefs Optimization algorithm for the Unequal Area Facility Layout Problem. Swarm and Evolutionary Computation, 2020, 55, 100688.	4.5	14
142	Statistical Analysis and Machine Learning Prediction of Fog-Caused Low-Visibility Events at A-8 Motor-Road in Spain. Atmosphere, 2021, 12, 679.	1.0	14
143	Hyperbolic Tangent Basis Function Neural Networks Training by Hybrid Evolutionary Programming for Accurate Short-Term Wind Speed Prediction. , 2009, , .		13
144	Spatio-temporal trend analysis of air temperature in Europe and Western Asia using data-coupled clustering. Global and Planetary Change, 2015, 129, 45-55.	1.6	13

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145	Automatic generation of models for energy demand estimation using Grammatical Evolution. Energy, 2018, 164, 183-193.	4.5	13
146	A genetic algorithm with switch-device encoding for optimal partition of switched industrial Ethernet networks. Journal of Network and Computer Applications, 2010, 33, 375-382.	5.8	12
147	Evolutionary association rules for total ozone content modeling from satellite observations. Chemometrics and Intelligent Laboratory Systems, 2011, 109, 217-227.	1.8	12
148	Effectively Tackling Reinsurance Problems by Using Evolutionary and Swarm Intelligence Algorithms. Risks, 2014, 2, 132-145.	1.3	12
149	A feature selection method for author identification in interactive communications based on supervised learning and language typicality. Engineering Applications of Artificial Intelligence, 2016, 56, 175-184.	4.3	12
150	A review of Computational Intelligence techniques in coral reef-related applications. Ecological Informatics, 2016, 32, 107-123.	2.3	12
151	Hybridizing Cartesian Genetic Programming and Harmony Search for adaptive feature construction in supervised learning problems. Applied Soft Computing Journal, 2017, 52, 760-770.	4.1	12
152	A Hybrid Coral Reefs Optimizationâ€"Variable Neighborhood Search Approach for the Unequal Area Facility Layout Problem. IEEE Access, 2020, 8, 134042-134050.	2.6	12
153	Optimal design of optical reference signals by use of a genetic algorithm. Optics Letters, 2005, 30, 2724.	1.7	11
154	Design of two-dimensional zero reference codes with a genetic algorithm. Optics Letters, 2006, 31, 1648.	1.7	11
155	Evolutionary Optimization of Service Times in Interactive Voice Response Systems. IEEE Transactions on Evolutionary Computation, 2010, 14, 602-617.	7.5	11
156	Multi-decadal variability in a centennial reconstruction of daily wind. Applied Energy, 2013, 105, 30-46.	5.1	11
157	Cloud glaciation temperature estimation from passive remote sensing data with evolutionary computing. Journal of Geophysical Research D: Atmospheres, 2016, 121, 13,591.	1.2	11
158	On the Application of a Novel Grouping Harmony Search Algorithm to the Switch Location Problem. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 662-672.	0.2	11
159	Curve fitting using heuristics and bio-inspired optimization algorithms for experimental data processing in chemistry. Chemometrics and Intelligent Laboratory Systems, 2009, 96, 34-42.	1.8	10
160	A novel machine learning approach to the detection of identity theft in social networks based on emulated attack instances and support vector machines. Concurrency Computation Practice and Experience, 2016, 28, 1385-1395.	1.4	10
161	A novel Grouping Coral Reefs Optimization algorithm for optimal mobile network deployment problems under electromagnetic pollution and capacity control criteria. Expert Systems With Applications, 2016, 55, 388-402.	4.4	10
162	Adaptive nesting of evolutionary algorithms for the optimization of Microgridâ€™s sizing and operation scheduling. Soft Computing, 2017, 21, 4845-4857.	2.1	10

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163	Wind power ramp event detection with a hybrid neuro-evolutionary approach. Neural Computing and Applications, 2020, 32, 391-402.	3.2	10
164	Efficient daily solar radiation prediction with deep learning 4-phase convolutional neural network, dual stage stacked regression and support vector machine CNN-REGST hybrid model. Sustainable Materials and Technologies, 2022, 32, e00429.	1.7	10
165	METAHEURISTIC APPROACHES TO TRAFFIC GROOMING IN WDM OPTICAL NETWORKS. International Journal of Computational Intelligence and Applications, 2005, 05, 231-249.	0.6	9
166	Solving Japanese Puzzles with Heuristics. , 2007, , .		9
167	Generation of Optical Reference Signals Robust to Diffractive Effects. IEEE Photonics Technology Letters, 2007, 19, 1133-1135.	1.3	9
168	A Hybrid Grouping Genetic Algorithm for citywide ubiquitous WiFi access deployment. , 2009, , .		9
169	Mobile network deployment under electromagnetic pollution control criterion: An evolutionary algorithm approach. Expert Systems With Applications, 2013, 40, 365-376.	4.4	9
170	A traffic-based evolutionary algorithm for network clustering. Applied Soft Computing Journal, 2013, 13, 4303-4319.	4.1	9
171	Neural computation in paleoclimatology: General methodology and a case study. Neurocomputing, 2013, 113, 262-268.	3.5	9
172	An Island Grouping Genetic Algorithm for Fuzzy Partitioning Problems. Scientific World Journal, The, 2014, 2014, 1-15.	0.8	9
173	2G/3G connect: An educational software for teaching 2G/3G mobile communications to engineering students. Computer Applications in Engineering Education, 2015, 23, 1-12.	2.2	9
174	Feature selection in solar radiation prediction using bootstrapped SVRs. , 2016, , .		9
175	Effective multi-objective optimization with the coral reefs optimization algorithm. Engineering Optimization, 2016, 48, 966-984.	1.5	9
176	Influence of the number and location of design parameters in the aerodynamic shape optimization of a transonic aerofoil and a wing through evolutionary algorithms and support vector machines. Engineering Optimization, 2017, 49, 181-198.	1.5	9
177	Submerged Arches Optimal Design With a Multi-Method Ensemble Meta-Heuristic Approach. IEEE Access, 2020, 8, 215057-215072.	2.6	9
178	Weighted ABG: A General Framework for Optimal Combination of ABG Path-Loss Propagation Models. IEEE Access, 2020, 8, 101758-101769.	2.6	9
179	Memetic coral reefs optimization algorithms for optimal geometrical design of submerged arches. Swarm and Evolutionary Computation, 2021, 67, 100958.	4.5	9
180	A Novel Coral Reefs Optimization Algorithm for Multi-objective Problems. Lecture Notes in Computer Science, 2013, , 326-333.	1.0	9

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181	A versatile multi-method ensemble for wind farm layout optimization. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 225, 104991.	1.7	9
182	Offline speaker segmentation using genetic algorithms and mutual information. IEEE Transactions on Evolutionary Computation, 2006, 10, 175-186.	7.5	8
183	A hybrid hopfield network-genetic algorithm approach for the lights-up puzzle. , 2007, , .		8
184	An evolutionary multiclass algorithm for automatic classification of high range resolution radar targets. Integrated Computer-Aided Engineering, 2009, 16, 51-60.	2.5	8
185	A dandelion-encoded evolutionary algorithm for the delay-constrained capacitated minimum spanning tree problem. Computer Communications, 2009, 32, 154-158.	3.1	8
186	A review of recent evolutionary computation-based techniques in wind turbines layout optimization problems. Open Computer Science, 2011, 1, .	1.3	8
187	Efficient prediction of total column ozone based on support vector regression algorithms, numerical models and Suomi-satellite data. Atmosfera, 2017, 30, 1-10.	0.3	8
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