

Sancho Salcedo-Sanz

List of Publications by Citations

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315
papers

5,761
citations

40
h-index

64
g-index

327
ext. papers

6,972
ext. citations

4.6
avg, IF

6.26
L-index

#	Paper	IF	Citations
3 ¹⁵	Bio-inspired computation: Where we stand and what's next. <i>Swarm and Evolutionary Computation</i> , 2019 , 48, 220-250	9.8	264
3 ¹⁴	A survey on applications of the harmony search algorithm. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1818-1831	7.2	263
3 ¹³	Predicting compressive strength of lightweight foamed concrete using extreme learning machine model. <i>Advances in Engineering Software</i> , 2018 , 115, 112-125	3.6	169
3 ¹²	Short term wind speed prediction based on evolutionary support vector regression algorithms. <i>Expert Systems With Applications</i> , 2011 , 38, 4052-4057	7.8	146
3 ¹¹	A Critical Review of Robustness in Power Grids Using Complex Networks Concepts. <i>Energies</i> , 2015 , 8, 9211-9265	3.1	142
3 ¹⁰	Hybridizing the fifth generation mesoscale model with artificial neural networks for short-term wind speed prediction. <i>Renewable Energy</i> , 2009 , 34, 1451-1457	8.1	141
3 ⁰⁹	Daily global solar radiation prediction based on a hybrid Coral Reefs Optimization [Extreme Learning Machine approach. <i>Solar Energy</i> , 2014 , 105, 91-98	6.8	132
3 ⁰⁸	Feature selection in wind speed prediction systems based on a hybrid coral reefs optimization [Extreme learning machine approach. <i>Energy Conversion and Management</i> , 2014 , 87, 10-18	10.6	116
3 ⁰⁷	Seeding evolutionary algorithms with heuristics for optimal wind turbines positioning in wind farms. <i>Renewable Energy</i> , 2011 , 36, 2838-2844	8.1	103
3 ⁰⁶	A new grouping genetic algorithm for clustering problems. <i>Expert Systems With Applications</i> , 2012 , 39, 9695-9703	7.8	99
3 ⁰⁵	The coral reefs optimization algorithm: a novel metaheuristic for efficiently solving optimization problems. <i>Scientific World Journal, The</i> , 2014 , 2014, 739768	2.2	93
3 ⁰⁴	Modern meta-heuristics based on nonlinear physics processes: A review of models and design procedures. <i>Physics Reports</i> , 2016 , 655, 1-70	27.7	92
3 ⁰³	Accurate short-term wind speed prediction by exploiting diversity in input data using banks of artificial neural networks. <i>Neurocomputing</i> , 2009 , 72, 1336-1341	5.4	82
3 ⁰²	Support vector machines in engineering: an overview. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2014 , 4, 234-267	6.9	79
3 ⁰¹	A novel Grouping Genetic Algorithm [Extreme Learning Machine approach for global solar radiation prediction from numerical weather models inputs. <i>Solar Energy</i> , 2016 , 132, 129-142	6.8	78
3 ⁰⁰	An efficient neuro-evolutionary hybrid modelling mechanism for the estimation of daily global solar radiation in the Sunshine State of Australia. <i>Applied Energy</i> , 2018 , 209, 79-94	10.7	74
299	. <i>IEEE Transactions on Wireless Communications</i> , 2003 , 2, 277-283	9.6	73

298	A survey of repair methods used as constraint handling techniques in evolutionary algorithms. <i>Computer Science Review</i> , 2009 , 3, 175-192	8.3	65
297	A Coral Reefs Optimization algorithm with Harmony Search operators for accurate wind speed prediction. <i>Renewable Energy</i> , 2015 , 75, 93-101	8.1	64
296	Prediction of Daily Global Solar Irradiation Using Temporal Gaussian Processes. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014 , 11, 1936-1940	4.1	61
295	Offshore wind farm design with the Coral Reefs Optimization algorithm. <i>Renewable Energy</i> , 2014 , 63, 109-115	8.1	58
294	Accurate precipitation prediction with support vector classifiers: A study including novel predictive variables and observational data. <i>Atmospheric Research</i> , 2014 , 139, 128-136	5.4	56
293	A Review of Classification Problems and Algorithms in Renewable Energy Applications. <i>Energies</i> , 2016 , 9, 607	3.1	56
292	Prediction of hourly O3 concentrations using support vector regression algorithms. <i>Atmospheric Environment</i> , 2010 , 44, 4481-4488	5.3	53
291	A hybrid Hopfield network-genetic algorithm approach for the terminal assignment problem. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 2343-53		53
290	Machine learning regressors for solar radiation estimation from satellite data. <i>Solar Energy</i> , 2019 , 183, 768-775	6.8	51
289	Feature selection in machine learning prediction systems for renewable energy applications. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 90, 728-741	16.2	51
288	Significant wave height and energy flux prediction for marine energy applications: A grouping genetic algorithm [Extreme Learning Machine approach. <i>Renewable Energy</i> , 2016 , 97, 380-389	8.1	51
287	Improving the training time of support vector regression algorithms through novel hyper-parameters search space reductions. <i>Neurocomputing</i> , 2009 , 72, 3683-3691	5.4	51
286	A hybrid hopfield network-simulated annealing approach for frequency assignment in satellite communications systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 1108-16		51
285	Efficient aerodynamic design through evolutionary programming and support vector regression algorithms. <i>Expert Systems With Applications</i> , 2012 , 39, 10700-10708	7.8	49
284	Enhancing genetic feature selection through restricted search and Walsh analysis. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2004 , 34, 398-406		49
283	Computational intelligence in wave energy: Comprehensive review and case study. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 58, 1223-1246	16.2	48
282	Local models-based regression trees for very short-term wind speed prediction. <i>Renewable Energy</i> , 2015 , 81, 589-598	8.1	47
281	Significant wave height estimation using SVR algorithms and shadowing information from simulated and real measured X-band radar images of the sea surface. <i>Ocean Engineering</i> , 2015 , 101, 244-253	3.9	46

280	Monthly prediction of air temperature in Australia and New Zealand with machine learning algorithms. <i>Theoretical and Applied Climatology</i> , 2016 , 125, 13-25	3	45
279	Genetic programming for the prediction of insolvency in non-life insurance companies. <i>Computers and Operations Research</i> , 2005 , 32, 749-765	4.6	45
278	Short-term wind speed prediction in wind farms based on banks of support vector machines. <i>Wind Energy</i> , 2011 , 14, 193-207	3.4	44
277	Prediction of daily maximum temperature using a support vector regression algorithm. <i>Renewable Energy</i> , 2011 , 36, 3054-3060	8.1	42
276	A review on the coral reefs optimization algorithm: new development lines and current applications. <i>Progress in Artificial Intelligence</i> , 2017 , 6, 1-15	4	41
275	Hybridizing Extreme Learning Machines and Genetic Algorithms to select acoustic features in vehicle classification applications. <i>Neurocomputing</i> , 2015 , 152, 58-68	5.4	38
274	Optimal discharge scheduling of energy storage systems in MicroGrids based on hyper-heuristics. <i>Renewable Energy</i> , 2015 , 83, 13-24	8.1	37
273	Machine learning information fusion in Earth observation: A comprehensive review of methods, applications and data sources. <i>Information Fusion</i> , 2020 , 63, 256-272	16.7	37
272	Hybrid meta-heuristics algorithms for task assignment in heterogeneous computing systems. <i>Computers and Operations Research</i> , 2006 , 33, 820-835	4.6	37
271	A multi-objective grouping Harmony Search algorithm for the optimal distribution of 24-hour medical emergency units. <i>Expert Systems With Applications</i> , 2013 , 40, 2343-2349	7.8	36
270	Accurate estimation of significant wave height with Support Vector Regression algorithms and marine radar images. <i>Coastal Engineering</i> , 2016 , 114, 233-243	4.8	35
269	Bayesian optimization of a hybrid system for robust ocean wave features prediction. <i>Neurocomputing</i> , 2018 , 275, 818-828	5.4	34
268	Team formation based on group technology: A hybrid grouping genetic algorithm approach. <i>Computers and Operations Research</i> , 2011 , 38, 484-495	4.6	34
267	Significant wave height and energy flux range forecast with machine learning classifiers. <i>Engineering Applications of Artificial Intelligence</i> , 2015 , 43, 44-53	7.2	33
266	One-way urban traffic reconfiguration using a multi-objective harmony search approach. <i>Expert Systems With Applications</i> , 2013 , 40, 3341-3350	7.8	33
265	Near optimal citywide WiFi network deployment using a hybrid grouping genetic algorithm. <i>Expert Systems With Applications</i> , 2011 , 38, 9543-9556	7.8	33
264	Multi-task learning for the prediction of wind power ramp events with deep neural networks. <i>Neural Networks</i> , 2020 , 123, 401-411	9.1	31
263	A hybrid grouping genetic algorithm for assigning students to preferred laboratory groups. <i>Expert Systems With Applications</i> , 2009 , 36, 7234-7241	7.8	31

262	Structures vibration control via Tuned Mass Dampers using a co-evolution Coral Reefs Optimization algorithm. <i>Journal of Sound and Vibration</i> , 2017 , 393, 62-75	3.9	30
261	A Multi-Objective Genetic Algorithm for overlapping community detection based on edge encoding. <i>Information Sciences</i> , 2018 , 462, 290-314	7.7	30
260	A novel Coral Reefs Optimization algorithm with substrate layers for optimal battery scheduling optimization in micro-grids. <i>Soft Computing</i> , 2016 , 20, 4287-4300	3.5	29
259	A hybrid genetic algorithm–extreme learning machine approach for accurate significant wave height reconstruction. <i>Ocean Modelling</i> , 2015 , 92, 115-123	3	27
258	A Hybrid Neural-Genetic Algorithm for the Frequency Assignment Problem in Satellite Communications. <i>Applied Intelligence</i> , 2005 , 22, 207-217	4.9	27
257	Evolutionary computation approaches for real offshore wind farm layout: A case study in northern Europe. <i>Expert Systems With Applications</i> , 2013 , 40, 6292-6297	7.8	26
256	Applying the coral reefs optimization algorithm for solving unequal area facility layout problems. <i>Expert Systems With Applications</i> , 2019 , 138, 112819	7.8	25
255	A Coral Reefs Optimization algorithm for optimal mobile network deployment with electromagnetic pollution control criterion. <i>Applied Soft Computing Journal</i> , 2014 , 24, 239-248	7.5	25
254	Coral Reef Optimization with substrate layers for medical Image Registration. <i>Swarm and Evolutionary Computation</i> , 2018 , 42, 138-159	9.8	24
253	Simultaneous modelling of rainfall occurrence and amount using a hierarchical nominal–ordinal support vector classifier. <i>Engineering Applications of Artificial Intelligence</i> , 2014 , 34, 199-207	7.2	24
252	A CRO-species optimization scheme for robust global solar radiation statistical downscaling. <i>Renewable Energy</i> , 2017 , 111, 63-76	8.1	23
251	A comparative study of two hybrid grouping evolutionary techniques for the capacitated P-median problem. <i>Computers and Operations Research</i> , 2012 , 39, 2214-2222	4.6	23
250	A novel grouping harmony search algorithm for the multiple-type access node location problem. <i>Expert Systems With Applications</i> , 2012 , 39, 5262-5270	7.8	23
249	Evaluating the Internationalization Success of Companies Through a Hybrid Grouping Harmony Search–Extreme Learning Machine Approach. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2012 , 6, 388-398	7.5	23
248	Evolutionary artificial neural networks for accurate solar radiation prediction. <i>Energy</i> , 2020 , 210, 118374	7.9	23
247	A statistically-driven Coral Reef Optimization algorithm for optimal size reduction of time series. <i>Applied Soft Computing Journal</i> , 2018 , 63, 139-153	7.5	22
246	A coral reefs optimization algorithm with substrate layers and local search for large scale global optimization 2016 ,		22
245	A hybrid harmony search algorithm for the spread spectrum radar polyphase codes design problem. <i>Expert Systems With Applications</i> , 2012 , 39, 11089-11093	7.8	21

244	Very fast training neural-computation techniques for real measure-correlate-predict wind operations in wind farms. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2013 , 116, 49-60	3.7	21
243	Sizing and maintenance visits optimization of a hybrid photovoltaic-hydrogen stand-alone facility using evolutionary algorithms. <i>Renewable Energy</i> , 2014 , 66, 402-413	8.1	20
242	Efficient Prediction of Low-Visibility Events at Airports Using Machine-Learning Regression. <i>Boundary-Layer Meteorology</i> , 2017 , 165, 349-370	3.4	20
241	Evolutionary Design of Digital Filters With Application to Subband Coding and Data Transmission. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 1193-1203	4.8	20
240	Optimal switch location in mobile communication networks using hybrid genetic algorithms. <i>Applied Soft Computing Journal</i> , 2008 , 8, 1486-1497	7.5	20
239	A two-phase heuristic evolutionary algorithm for personalizing course timetables: a case study in a Spanish university. <i>Computers and Operations Research</i> , 2005 , 32, 1761-1776	4.6	20
238	One-year-ahead energy demand estimation from macroeconomic variables using computational intelligence algorithms. <i>Energy Conversion and Management</i> , 2015 , 99, 62-71	10.6	19
237	A random-key encoded harmony search approach for energy-efficient production scheduling with shared resources. <i>Engineering Optimization</i> , 2015 , 47, 1481-1496	2	19
236	Active vibration control design using the Coral Reefs Optimization with Substrate Layer algorithm. <i>Engineering Structures</i> , 2018 , 157, 14-26	4.7	19
235	Robust total energy demand estimation with a hybrid Variable Neighborhood Search [Extreme Learning Machine algorithm. <i>Energy Conversion and Management</i> , 2016 , 123, 445-452	10.6	19
234	Massive missing data reconstruction in ocean buoys with evolutionary product unit neural networks. <i>Ocean Engineering</i> , 2016 , 117, 292-301	3.9	19
233	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. <i>Sensors</i> , 2018 , 18,	3.8	19
232	Accurate local very short-term temperature prediction based on synoptic situation Support Vector Regression banks. <i>Atmospheric Research</i> , 2012 , 107, 1-8	5.4	19
231	A decision support system for the automatic management of keep-clear signs based on support vector machines and geographic information systems. <i>Expert Systems With Applications</i> , 2010 , 37, 767-773	7.8	19
230	Optimizing the Structure of Distribution Smart Grids with Renewable Generation against Abnormal Conditions: A Complex Networks Approach with Evolutionary Algorithms. <i>Energies</i> , 2017 , 10, 1097	3.1	18
229	DRED: An evolutionary diversity generation method for concept drift adaptation in online learning environments. <i>Applied Soft Computing Journal</i> , 2018 , 68, 693-709	7.5	18
228	A novel Island Model based on Coral Reefs Optimization algorithm for solving the unequal area facility layout problem. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 89, 103445	7.2	18
227	Robust estimation of wind power ramp events with reservoir computing. <i>Renewable Energy</i> , 2017 , 111, 428-437	8.1	17

226	On the design of a novel two-objective harmony search approach for distance- and connectivity-based localization in wireless sensor networks. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 669-676	7.2	17
225	Hybridizing logistic regression with product unit and RBF networks for accurate detection and prediction of banking crises. <i>Omega</i> , 2010 , 38, 333-344	7.2	17
224	Assignment of cells to switches in a cellular mobile network using a hybrid Hopfield network-genetic algorithm approach. <i>Applied Soft Computing Journal</i> , 2008 , 8, 216-224	7.5	17
223	Drought Prediction With Standardized Precipitation and Evapotranspiration Index and Support Vector Regression Models 2018 , 151-174		17
222	Evaluation of dimensionality reduction methods applied to numerical weather models for solar radiation forecasting. <i>Engineering Applications of Artificial Intelligence</i> , 2018 , 69, 157-167	7.2	16
221	Prediction of low-visibility events due to fog using ordinal classification. <i>Atmospheric Research</i> , 2018 , 214, 64-73	5.4	16
220	An evolutionary-based hyper-heuristic approach for optimal construction of group method of data handling networks. <i>Information Sciences</i> , 2013 , 247, 94-108	7.7	16
219	Wind Power Ramp Events Prediction with Hybrid Machine Learning Regression Techniques and Reanalysis Data. <i>Energies</i> , 2017 , 10, 1784	3.1	16
218	Extraction of synoptic pressure patterns for long-term wind speed estimation in wind farms using evolutionary computing. <i>Energy</i> , 2011 , 36, 1571-1581	7.9	16
217	Iterative power and subcarrier allocation in rate-constrained orthogonal multicarrier downlink systems based on hybrid harmony search heuristics. <i>Engineering Applications of Artificial Intelligence</i> , 2011 , 24, 748-756	7.2	16
216	HYBRID PIFA-PATCH ANTENNA OPTIMIZED BY EVOLUTIONARY PROGRAMMING. <i>Progress in Electromagnetics Research</i> , 2010 , 108, 221-234	3.8	16
215	A portable and scalable algorithm for a class of constrained combinatorial optimization problems. <i>Computers and Operations Research</i> , 2005 , 32, 2671-2687	4.6	16
214	Ordinal and nominal classification of wind speed from synoptic pressure patterns. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1008-1015	7.2	15
213	Efficient citywide planning of open WiFi access networks using novel grouping harmony search heuristics. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 1124-1130	7.2	15
212	Wind speed reconstruction from synoptic pressure patterns using an evolutionary algorithm. <i>Applied Energy</i> , 2012 , 89, 347-354	10.7	15
211	Multi-parametric Gaussian Kernel Function Optimization for ESVMr Using a Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2011 , 113-120	0.9	15
210	A Coral Reefs Optimization algorithm with substrate layer for robust Wi-Fi channel assignment. <i>Soft Computing</i> , 2019 , 23, 12621-12640	3.5	14
209	Joint optimization of a Microgrid's structure design and its operation using a two-steps evolutionary algorithm. <i>Energy</i> , 2016 , 94, 775-785	7.9	14

208	On the application of multi-objective harmony search heuristics to the predictive deployment of firefighting aircrafts: a realistic case study. <i>International Journal of Bio-Inspired Computation</i> , 2015 , 7, 270	2.9	14
207	A coral-reef optimization algorithm for the optimal service distribution problem in mobile radio access networks. <i>Transactions on Emerging Telecommunications Technologies</i> , 2014 , 25, 1057-1069	1.9	14
206	A comparison of memetic algorithms for the spread spectrum radar polyphase codes design problem. <i>Engineering Applications of Artificial Intelligence</i> , 2008 , 21, 1233-1238	7.2	14
205	Efficient fog prediction with multi-objective evolutionary neural networks. <i>Applied Soft Computing Journal</i> , 2018 , 70, 347-358	7.5	14
204	Spatio-temporal trend analysis of air temperature in Europe and Western Asia using data-coupled clustering. <i>Global and Planetary Change</i> , 2015 , 129, 45-55	4.2	13
203	Automated generation and visualization of picture-logic puzzles. <i>Computers and Graphics</i> , 2007 , 31, 750-760	7.6	13
202	Teaching Advanced Features of Evolutionary Algorithms Using Japanese Puzzles. <i>IEEE Transactions on Education</i> , 2007 , 50, 151-156	2.1	13
201	Design of a Multi-Band Microstrip Textile Patch Antenna for LTE and 5G Services with the CRO-SL Ensemble. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 1168	2.6	13
200	Feature Selection via Genetic Optimization. <i>Lecture Notes in Computer Science</i> , 2002 , 547-552	0.9	13
199	Analysis and Prediction of Dammed Water Level in a Hydropower Reservoir Using Machine Learning and Persistence-Based Techniques. <i>Water (Switzerland)</i> , 2020 , 12, 1528	3	12
198	Hyperbolic Tangent Basis Function Neural Networks Training by Hybrid Evolutionary Programming for Accurate Short-Term Wind Speed Prediction 2009 ,		12
197	Feature selection methods involving support vector machines for prediction of insolvency in non-life insurance companies. <i>Intelligent Systems in Accounting, Finance and Management</i> , 2004 , 12, 261-281	2.5	12
196	Hybrid Evolutionary Approaches to Terminal Assignment in Communications Networks 2005 , 129-159		12
195	Spatio-temporal analysis of wind resource in the Iberian Peninsula with data-coupled clustering. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 81, 2684-2694	16.2	11
194	Cloud glaciation temperature estimation from passive remote sensing data with evolutionary computing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13,591-13,608	4.4	11
193	An evolutionary-based hyper-heuristic approach for the Jawbreaker puzzle. <i>Applied Intelligence</i> , 2014 , 40, 404-414	4.9	11
192	Evolutionary product unit neural networks for short-term wind speed forecasting in wind farms. <i>Neural Computing and Applications</i> , 2012 , 21, 993-1005	4.8	11
191	Multi-decadal variability in a centennial reconstruction of daily wind. <i>Applied Energy</i> , 2013 , 105, 30-46	10.7	11

190	On the Application of a Novel Grouping Harmony Search Algorithm to the Switch Location Problem. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2010 , 662-672	0.2	11
189	Persistence Analysis and Prediction of Low-Visibility Events at Valladolid Airport, Spain. <i>Symmetry</i> , 2020 , 12, 1045	2.7	10
188	Effectively Tackling Reinsurance Problems by Using Evolutionary and Swarm Intelligence Algorithms. <i>Risks</i> , 2014 , 2, 132-145	1.6	10
187	An incremental-encoding evolutionary algorithm for color reduction in images. <i>Integrated Computer-Aided Engineering</i> , 2010 , 17, 261-269	5.2	10
186	Evolutionary Optimization of Service Times in Interactive Voice Response Systems. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 602-617	15.6	10
185	A genetic algorithm with switch-device encoding for optimal partition of switched industrial Ethernet networks. <i>Journal of Network and Computer Applications</i> , 2010 , 33, 375-382	7.9	10
184	Design of two-dimensional zero reference codes with a genetic algorithm. <i>Optics Letters</i> , 2006 , 31, 1648-50	3.50	10
183	Optimal Generation Scheduling in Hydro-Power Plants with the Coral Reefs Optimization Algorithm. <i>Energies</i> , 2021 , 14, 2443	3.1	10
182	Optimal Microgrid Topology Design and Siting of Distributed Generation Sources Using a Multi-Objective Substrate Layer Coral Reefs Optimization Algorithm. <i>Sustainability</i> , 2019 , 11, 169	3.6	10
181	Near-optimal selection of representative measuring points for robust temperature field reconstruction with the CRO-SL and analogue methods. <i>Global and Planetary Change</i> , 2019 , 178, 15-34	4.2	9
180	A review of Computational Intelligence techniques in coral reef-related applications. <i>Ecological Informatics</i> , 2016 , 32, 107-123	4.2	9
179	A traffic-based evolutionary algorithm for network clustering. <i>Applied Soft Computing Journal</i> , 2013 , 13, 4303-4319	7.5	9
178	Neural computation in paleoclimatology: General methodology and a case study. <i>Neurocomputing</i> , 2013 , 113, 262-268	5.4	9
177	Hybridizing Cartesian Genetic Programming and Harmony Search for adaptive feature construction in supervised learning problems. <i>Applied Soft Computing Journal</i> , 2017 , 52, 760-770	7.5	9
176	Curve fitting using heuristics and bio-inspired optimization algorithms for experimental data processing in chemistry. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2009 , 96, 34-42	3.8	9
175	METAHEURISTIC APPROACHES TO TRAFFIC GROOMING IN WDM OPTICAL NETWORKS. <i>International Journal of Computational Intelligence and Applications</i> , 2005 , 05, 231-249	1.2	9
174	A novel Grouping Coral Reefs Optimization algorithm for optimal mobile network deployment problems under electromagnetic pollution and capacity control criteria. <i>Expert Systems With Applications</i> , 2016 , 55, 388-402	7.8	9
173	A feature selection method for author identification in interactive communications based on supervised learning and language typicality. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 56, 175-184	7.2	9

172	A study on the impact of easements in the deployment of wind farms near airport facilities. <i>Renewable Energy</i> , 2019 , 135, 566-588	8.1	9
171	A novel multi-objective Interactive Coral Reefs Optimization algorithm for the Unequal Area Facility Layout Problem. <i>Swarm and Evolutionary Computation</i> , 2020 , 55, 100688	9.8	9
170	Significant wave height and energy flux estimation with a Genetic Fuzzy System for regression. <i>Ocean Engineering</i> , 2018 , 160, 33-44	3.9	9
169	An efficient multi-objective evolutionary approach for solving the operation of multi-reservoir system scheduling in hydro-power plants. <i>Expert Systems With Applications</i> , 2021 , 185, 115638	7.8	9
168	Effective multi-objective optimization with the coral reefs optimization algorithm. <i>Engineering Optimization</i> , 2016 , 48, 966-984	2	8
167	Addressing Unequal Area Facility Layout Problems with the Coral Reef Optimization algorithm with Substrate Layers. <i>Engineering Applications of Artificial Intelligence</i> , 2020 , 93, 103697	7.2	8
166	Optimal design of Microgrid network topology and location of the distributed renewable energy resources using the Harmony Search algorithm. <i>Soft Computing</i> , 2019 , 23, 6495-6510	3.5	8
165	Mobile network deployment under electromagnetic pollution control criterion: An evolutionary algorithm approach. <i>Expert Systems With Applications</i> , 2013 , 40, 365-376	7.8	8
164	Adaptive nesting of evolutionary algorithms for the optimization of Microgrid sizing and operation scheduling. <i>Soft Computing</i> , 2017 , 21, 4845-4857	3.5	8
163	2G/3G connect: An educational software for teaching 2G/3G mobile communications to engineering students. <i>Computer Applications in Engineering Education</i> , 2015 , 23, 1-12	1.6	8
162	An island grouping genetic algorithm for fuzzy partitioning problems. <i>Scientific World Journal, The</i> , 2014 , 2014, 916371	2.2	8
161	Evolutionary association rules for total ozone content modeling from satellite observations. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011 , 109, 217-227	3.8	8
160	A Novel Coral Reefs Optimization Algorithm for Multi-objective Problems. <i>Lecture Notes in Computer Science</i> , 2013 , 326-333	0.9	8
159	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. <i>Engineering Optimization</i> , 2017 , 49, 181-198	2	7
158	Coplanar hybrid antenna for mobile and wireless applications. <i>IET Microwaves, Antennas and Propagation</i> , 2011 , 5, 192	1.6	7
157	A review of recent evolutionary computation-based techniques in wind turbines layout optimization problems. <i>Open Computer Science</i> , 2011 , 1,	1.5	7
156	A Hybrid Grouping Genetic Algorithm for citywide ubiquitous WiFi access deployment 2009 ,		7
155	Solving Japanese Puzzles with Heuristics 2007 ,		7

154	Optimal design of optical reference signals by use of a genetic algorithm. <i>Optics Letters</i> , 2005 , 30, 2724-6		7
153	Offline speaker segmentation using genetic algorithms and mutual information. <i>IEEE Transactions on Evolutionary Computation</i> , 2006 , 10, 175-186	15.6	7
152	Direct Solar Radiation Prediction Based on Soft-Computing Algorithms Including Novel Predictive Atmospheric Variables. <i>Lecture Notes in Computer Science</i> , 2013 , 318-325	0.9	7
151	Ordinal regression algorithms for the analysis of convective situations over Madrid-Barajas airport. <i>Atmospheric Research</i> , 2020 , 236, 104798	5.4	7
150	A novel machine learning approach to the detection of identity theft in social networks based on emulated attack instances and support vector machines. <i>Concurrency Computation Practice and Experience</i> , 2016 , 28, 1385-1395	1.4	7
149	Automatic generation of models for energy demand estimation using Grammatical Evolution. <i>Energy</i> , 2018 , 164, 183-193	7.9	7
148	A Lamarckian Hybrid Grouping Genetic Algorithm with repair heuristics for resource assignment in WCDMA networks. <i>Applied Soft Computing Journal</i> , 2016 , 43, 619-632	7.5	6
147	Wind power field reconstruction from a reduced set of representative measuring points. <i>Applied Energy</i> , 2018 , 228, 1111-1121	10.7	6
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