Leandro Dos S Coelho

List of Publications by Year in Descending Order

364 papers	**10,280** citations	**53** h-index	**90** g-index
425 ext. papers	**12,380** ext. citations	**4.3** avg, IF	**7.29** L-index

#	Paper	IF	Citations
364	Tuning of control parameters of the Whale Optimization Algorithm using fuzzy inference system. *Journal of Intelligent and Fuzzy Systems*, **2022**, 1-16	1.6	1
363	Discrete differential evolution metaheuristics for permutation flow shop scheduling problems. *Computers and Industrial Engineering*, **2022**, 166, 107956	6.4	5
362	Ensemble Learning Models Coupled with Urban Mobility Information Applied to Predict COVID-19 Incidence Cases. *Studies in Systems, Decision and Control*, **2022**, 821-858	0.8	0
361	Efficient bootstrap stacking ensemble learning model applied to wind power generation forecasting. *International Journal of Electrical Power and Energy Systems*, **2022**, 136, 107712	5.1	14
360	Time series forecasting using ensemble learning methods for emergency prevention in hydroelectric power plants with dam. *Electric Power Systems Research*, **2022**, 202, 107584	3.5	8
359	Blending Colored and Depth CNN Pipelines in an Ensemble Learning Classification Approach for Warehouse Application Using Synthetic and Real Data. *Machines*, **2022**, 10, 28	2.9	0
358	Maximizing the thermal performance index applying evolutionary multi-objective optimization approaches for double pipe heat exchanger. *Applied Thermal Engineering*, **2022**, 211, 118504	5.8	1
357	Nature inspired optimization tools for SVMs - NIOTS.. *MethodsX*, **2021**, 8, 101574	1.9	0
356	Multiobjective Ant Lion Approaches Applied to Electromagnetic Device Optimization. *Technologies*, **2021**, 9, 35	2.4	1
355	Chaotic Jaya Approaches to Solving Electromagnetic Optimization Benchmark Problems. *Telecom*, **2021**, 2, 222-231	1.8	3
354	A novel decomposition-ensemble learning framework for multi-step ahead wind energy forecasting. *Energy*, **2021**, 216, 119174	7.9	40
353	Hybrid multi-stage decomposition with parametric model applied to wind speed forecasting in Brazilian Northeast. *Renewable Energy*, **2021**, 164, 1508-1526	8.1	27
352	Multi-objective lightning search algorithm applied to wind farm layout optimization. *Energy*, **2021**, 216, 119214	7.9	11
351	Chaotic coyote algorithm applied to truss optimization problems. *Computers and Structures*, **2021**, 242, 106353	4.5	23
350	Multi-objective adaptive differential evolution for SVM/SVR hyperparameters selection. *Pattern Recognition*, **2021**, 110, 107649	7.7	17
349	. *IEEE Open Journal of Antennas and Propagation*, **2021**, 2, 151-162	1.9	9
348	Self-adaptive differential evolution applied to combustion engine calibration. *Soft Computing*, **2021**, 25, 109-135	3.5	3

347	Novel hybrid model based on echo state neural network applied to the prediction of stock price return volatility. *Expert Systems With Applications*, **2021**, 184, 115490	7.8	11
346	Multiobjective optimization design procedures for data-driven unmanned aerial vehicles automatic target recognition systems **2021**, 231-256		0
345	Hybrid Wavelet Stacking Ensemble Model for Insulators Contamination Forecasting. *IEEE Access*, **2021**, 9, 66387-66397	3.5	9
344	Electricity Price Forecasting Based on Self-Adaptive Decomposition and Heterogeneous Ensemble Learning. *Energies*, **2020**, 13, 5190	3.1	25
343	Solar Power Forecasting Based on Ensemble Learning Methods **2020**,		2
342	Bayesian Optimized Echo State Network Applied to Short-Term Load Forecasting. *Energies*, **2020**, 13, 2390	3.1	10
341	Optimization of drop ejection frequency in EHD inkjet printing system using an improved Firefly Algorithm. *Applied Soft Computing Journal*, **2020**, 94, 106438	7.5	14
340	Binary coyote optimization algorithm for feature selection. *Pattern Recognition*, **2020**, 107, 107470	7.7	24
339	An R library for nonlinear black-box system identification. *SoftwareX*, **2020**, 11, 100495	2.7	2
338	Piezoelectric micromanipulator dataset for hysteresis identification. *Data in Brief*, **2020**, 29, 105175	1.2	1
337	Forecasting Brazilian and American COVID-19 cases based on artificial intelligence coupled with climatic exogenous variables. *Chaos, Solitons and Fractals*, **2020**, 139, 110027	9.3	57
336	Wavelet group method of data handling for fault prediction in electrical power insulators. *International Journal of Electrical Power and Energy Systems*, **2020**, 123, 106269	5.1	39
335	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	4.9	15
334	Electrical Insulator Fault Forecasting Based on a Wavelet Neuro-Fuzzy System. *Energies*, **2020**, 13, 484	3.1	26
333	Short-term forecasting COVID-19 cumulative confirmed cases: Perspectives for Brazil. *Chaos, Solitons and Fractals*, **2020**, 135, 109853	9.3	223
332	Multi-step wind speed forecasting based on hybrid multi-stage decomposition model and long short-term memory neural network. *Energy Conversion and Management*, **2020**, 213, 112869	10.6	47
331	Adversarial Autoencoder and Multi-Task Semi-Supervised Learning for Multi-stage Process. *Lecture Notes in Computer Science*, **2020**, 3-16	0.9	
330	Efficient Hardware Implementation of Nonlinear Moving-horizon State Estimation with Artificial Neural Networks. *IFAC-PapersOnLine*, **2020**, 53, 7813-7818	0.7	

329	Wind turbines anomaly detection based on power curves and ensemble learning. *IET Renewable Power Generation*, **2020**, 14, 4086-4093	2.9	7
328	Towards a Machine Learning Failure Prediction System Applied to a Smart Manufacturing Process. *IFIP Advances in Information and Communication Technology*, **2020**, 26-35	0.5	
327	MOBOpt multi-objective Bayesian optimization. *SoftwareX*, **2020**, 12, 100520	2.7	14
326	Nonlinear black-box system identification through coevolutionary algorithms and radial basis function artificial neural networks. *Applied Soft Computing Journal*, **2020**, 87, 105990	7.5	11
325	Multi-step ahead Bitcoin Price Forecasting Based on VMD and Ensemble Learning Methods **2020**,		4
324	Multi-step ahead meningitis case forecasting based on decomposition and multi-objective optimization methods. *Journal of Biomedical Informatics*, **2020**, 111, 103575	10.2	15
323	Experimental analysis of R410A flow in helically rib-roughened tubes. *Thermal Science and Engineering Progress*, **2020**, 20, 100668	3.6	2
322	Meta-heuristic inspired by the behavior of the humpback whale tuned by a fuzzy inference system. *Journal of Intelligent and Fuzzy Systems*, **2020**, 39, 7993-8000	1.6	1
321	Ensemble approach based on bagging, boosting and stacking for short-term prediction in agribusiness time series. *Applied Soft Computing Journal*, **2020**, 86, 105837	7.5	106
320	Bio-Inspired Multiojective Tuning of PID-Controlled Antilock Braking Systems **2019**,		1
319	Bio-inspired optimization algorithms for real underwater image restoration. *Signal Processing: Image Communication*, **2019**, 77, 49-65	2.8	15
318	Non-uniformly spaced linear antenna array design by means of PEEC approach applying Cheetah optimization algorithm. *International Journal of Applied Electromagnetics and Mechanics*, **2019**, 60, S15-S24	0.4	4
317	Enhanced ensemble structures using wavelet neural networks applied to short-term load forecasting. *Engineering Applications of Artificial Intelligence*, **2019**, 82, 272-281	7.2	72
316	Pressure prediction of a spark ignition single cylinder engine using optimized extreme learning machine models. *Applied Energy*, **2019**, 249, 204-221	10.7	37
315	Design of heat exchangers using Falcon Optimization Algorithm. *Applied Thermal Engineering*, **2019**, 156, 119-144	5.8	83
314	Predicting centre of mass horizontal speed in low to severe swimming intensities with linear and non-linear models. *Journal of Sports Sciences*, **2019**, 37, 1512-1520	3.6	0
313	Metaheuristic inspired on owls behavior applied to heat exchangers design. *Thermal Science and Engineering Progress*, **2019**, 14, 100431	3.6	27
312	Cultural coyote optimization algorithm applied to a heavy duty gas turbine operation. *Energy Conversion and Management*, **2019**, 199, 111932	10.6	43

311	Multi-Objective Ensemble Model for Short-Term Price Forecasting in Corn Price Time Series **2019**,		7
310	Multiobjective Coyote Algorithm Applied to Electromagnetic Optimization **2019**,		2
309	Machine Learning-Based Soft Sensors for the Estimation of Laundry Moisture Content in Household Dryer Appliances. *Energies*, **2019**, 12, 3843	3.1	5
308	A modified harmony search algorithm applied to capacitor placement of radial distribution networks considering voltage stability index. *International Journal of Bio-Inspired Computation*, **2019**, 13, 189	2.9	2
307	Tuning of Control Parameters of Grey Wolf Optimizer using Fuzzy Inference. *IEEE Latin America Transactions*, **2019**, 17, 1191-1198	0.7	4
306	A case study on environmental sustainability: A study of the trophic changes in fish species as a result of the damming of rivers through clustering analysis. *Computers and Industrial Engineering*, **2019**, 135, 1239-1252	6.4	1
305	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	5.8	63
304	Comparison of Different Classifiers for Automatic Target Recognition Systems. *IEEE Latin America Transactions*, **2018**, 16, 13-18	0.7	2
303	Modelling and Predicting Backstroke Start Performance Using Non-Linear and Linear Models. *Journal of Human Kinetics*, **2018**, 61, 29-38	2.6	4
302	Design of spiral heat exchanger from economic and thermal point of view using a tuned wind-driven optimizer. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2018**, 40, 1	2	8
301	A novel multiobjective lognormal-beta differential evolution approach for the transformer design optimization. *Engineering Computations*, **2018**, 35, 955-978	1.4	7
300	Multiobjective lightining search applied to Jiles-Atherton hysteresis model parameter estimation **2018**,		1
299	Wind turbine blade geometry design based on multi-objective optimization using metaheuristics. *Energy*, **2018**, 162, 645-658	7.9	40
298	Earthworm optimisation algorithm: a bio-inspired metaheuristic algorithm for global optimisation problems. *International Journal of Bio-Inspired Computation*, **2018**, 12, 1	2.9	184
297	Modeling of a 2-DOF Piezoelectric Micromanipulator at High Frequency Rates through Nonlinear Black-box System Identification **2018**,		4
296	Wind speed forecasting approach based on Singular Spectrum Analysis and Adaptive Neuro Fuzzy Inference System. *Renewable Energy*, **2018**, 126, 736-754	8.1	75
295	Coyote Optimization Algorithm: A New Metaheuristic for Global Optimization Problems **2018**,		166
294	A V-Shaped Binary Crow Search Algorithm for Feature Selection **2018**,		32

293	A Conceptual Model of a Stereo Vision System to Aid a Teleoperated Robot in Pruning Vegetation Close to Overhead Urban Power Lines **2018**,	1
292	Electromagnetic Optimization Based on Gaussian Crow Search Approach **2018**,	4
291	Ant Lion Approach Based on Lozi Map for Multiobjective Transformer Design Optimization **2018**,	2
290	Agribusiness time series forecasting using Wavelet neural networks and metaheuristic optimization: An analysis of the soybean sack price and perishable products demand. *International Journal of Production Economics*, **2018**, 203, 174-189	9.3 27
289	Spiral inductor design based on fireworks optimization combined with free search **2018**,	2
288	Solving non-smooth economic dispatch by a new combination of continuous GRASP algorithm and differential evolution. *International Journal of Electrical Power and Energy Systems*, **2017**, 84, 13-24	5.1 67
287	Static force capability optimization of humanoids robots based on modified self-adaptive differential evolution. *Computers and Operations Research*, **2017**, 84, 205-215	4.6 12
286	Minimizing computational cost and energy demand of building lighting systems: A real time experiment using a modified competition over resources algorithm. *Energy and Buildings*, **2017**, 139, 108-123	7 17
285	Efficient hardware implementation of radial basis function neural network with customized-precision floating-point operations. *Control Engineering Practice*, **2017**, 60, 124-132	3.9 6
284	Multiobjective Symbiotic Search Algorithm Approaches for Electromagnetic Optimization. *IEEE Transactions on Magnetics*, **2017**, 53, 1-4	2 10
283	Note: Experimental setup for measuring the barocaloric effect in polymers: Application to natural rubber. *Review of Scientific Instruments*, **2017**, 88, 046103	1.7 14
282	Image forgery detection by semi-automatic wavelet soft-Thresholding with error level analysis. *Expert Systems With Applications*, **2017**, 85, 348-356	7.8 17
281	Multi-objective optimization of the Stirling heat engine through self-adaptive Jaya algorithm. *Journal of Renewable and Sustainable Energy*, **2017**, 9, 033703	2.5 12
280	Analysis of zero field and field cooled magnetization curves of $CoFe_2O_4$ nanoparticles with a T-dependence on the saturation magnetization. *Journal of Alloys and Compounds*, **2017**, 721, 525-530	5.7 7
279	Thermodynamic optimization design for plate-fin heat exchangers by Tsallis JADE. *International Journal of Thermal Sciences*, **2017**, 113, 136-144	4.1 20
278	Fuzzy Inference System Approach Using Clustering and Differential Evolution Optimization Applied to Identification of a Twin Rotor System. *IFAC-PapersOnLine*, **2017**, 50, 13102-13107	0.7 5
277	Designing Lead-Lag PSS Employing Backtracking Search Algorithm to Improve Power System Damping **2017**,	2
276	Power system stability enhancement by designing optimal PSS employing backtracking search algorithm **2017**,	10

275	Economic optimization design for shell-and-tube heat exchangers by a Tsallis differential evolution. *Applied Thermal Engineering*, **2017**, 111, 143-151	5.8	61
274	Multi-Objective Model Selection for Unmanned Aerial Vehicles Automatic Target Recognition Systems. *IFAC-PapersOnLine*, **2017**, 50, 11607-11612	0.7	2
273	Heuristic Kalman Algorithm for Multiobjective Optimization.. *IFAC-PapersOnLine*, **2017**, 50, 4460-4465	0.7	1
272	Hygrothermal Dynamic and Mould Growth Risk Predictions for Concrete Tiles by Using Least Squares Support Vector Machines. *Energies*, **2017**, 10, 1093	3.1	6
271	Multiobjective Krill Herd Algorithm for Electromagnetic Optimization. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	15
270	Nonlinear model predictive control hardware implementation with custom-precision floating point operations **2016**,		7
269	Short-term load forecasting using wavenet ensemble approaches **2016**,		6
268	A new metaheuristic optimisation algorithm motivated by elephant herding behaviour. *International Journal of Bio-Inspired Computation*, **2016**, 8, 394	2.9	194
267	Predicting building's corners hygrothermal behavior by using a Fuzzy inference system combined with clustering and Kalman filter. *International Communications in Heat and Mass Transfer*, **2016**, 71, 225-233	5.8	8
266	Application of quantitative structure-property relationship analysis to estimate the vapor pressure of pesticides. *Ecotoxicology and Environmental Safety*, **2016**, 128, 52-60	7	8
265	Multi-objective grey wolf optimizer: A novel algorithm for multi-criterion optimization. *Expert Systems With Applications*, **2016**, 47, 106-119	7.8	647
264	Magnetocaloric effect of the ternary Dy, Ho and Er platinum gallides. *Journal of Magnetism and Magnetic Materials*, **2016**, 401, 1088-1092	2.8	19
263	Cascaded evolutionary algorithm for nonlinear system identification based on correlation functions and radial basis functions neural networks. *Mechanical Systems and Signal Processing*, **2016**, 68-69, 378-393	7.8	30
262	Modified Social-Spider Optimization Algorithm Applied to Electromagnetic Optimization. *IEEE Transactions on Magnetics*, **2016**, 52, 1-4	2	25
261	Design of heat exchangers using a novel multiobjective free search differential evolution paradigm. *Applied Thermal Engineering*, **2016**, 94, 170-177	5.8	48
260	Model Based Predictive Control of Multivariable Hammerstein Processes with Fuzzy Logic Hypercube Interpolated Models. *PLoS ONE*, **2016**, 11, e0163116	3.7	1
259	Multi-hop Localization Method Based on Tribes Algorithm. *Lecture Notes in Computer Science*, **2016**, 156-170		1
258	RBF Neural Network combined with self-adaptive MODE and Genetic Algorithm to identify velocity profile of swimmers **2016**,		1

257	A population-based simulated annealing algorithm for global optimization **2016**,	16
256	Multiobjective wind driven optimization approach applied to transformer design **2016**,	5
255	Multi-objective symbiotic search algorithm approaches for electromagnetic optimization **2016**,	2
254	Modified crow search approach applied to electromagnetic optimization **2016**,	16
253	An enhanced bat algorithm approach for reducing electrical power consumption of air conditioning systems based on differential operator. *Applied Thermal Engineering*, **2016**, 99, 834-840	5.8	26
252	Generalized minimum variance control under long-range prediction horizon setups. *ISA Transactions* , **2016**, 62, 325-32	5.5	8
251	Multidisciplinary optimisation in mechatronic systems: a comparative analysis with multiobjective techniques. *IEEE Latin America Transactions*, **2016**, 14, 364-370	0.7	2
250	Demand forecasting based on natural computing approaches applied to the foodstuff retail segment. *Journal of Retailing and Consumer Services*, **2016**, 31, 174-181	8.5	13
249	Volumetric efficiency optimization of a single-cylinder D.I. diesel engine using differential evolution algorithm. *Applied Thermal Engineering*, **2016**, 108, 660-669	5.8	14
248	A novel framework for optimization of a grid independent hybrid renewable energy system: A case study of Iran. *Solar Energy*, **2015**, 112, 383-396	6.8	123
247	Wavenet using artificial bee colony applied to modeling of truck engine powertrain components. *Engineering Applications of Artificial Intelligence*, **2015**, 41, 41-55	7.2	12
246	Optimal allocation, sizing of PHEV parking lots in distribution system. *International Journal of Electrical Power and Energy Systems*, **2015**, 67, 472-477	5.1	55
245	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	5.8	22
244	Multivariable system stabilization via discrete variable structure control. *Control Engineering Practice*, **2015**, 40, 71-80	3.9	2
243	Efficient Sampling of PI Controllers in Evolutionary Multiobjective Optimization **2015**,	1
242	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	7.9	56
241	Determination of photovoltaic modules parameters at different operating conditions using a novel bird mating optimizer approach. *Energy Conversion and Management*, **2015**, 89, 608-614	10.6	117
240	Image thresholding segmentation based on a novel beta differential evolution approach. *Expert Systems With Applications*, **2015**, 42, 2136-2142	7.8	66

239	Capacitor placement of distribution systems using particle swarm optimization approaches. *International Journal of Electrical Power and Energy Systems*, **2015**, 64, 839-851	5.1	65
238	PIPIMC: Computational Tool for Teaching FOPDT Model Identification and PI-IMC Tuning. *IFAC-PapersOnLine*, **2015**, 48, 70-75	0.7	
237	Harmony Search Approach Based on Ricker Map for Multi-Objective Transformer Design Optimization. *IEEE Transactions on Magnetics*, **2015**, 51, 1-4	2	9
236	Variable structure control optimized by differential evolution approach applied to continuous stirred tank reactor. *Chemical Engineering Research and Design*, **2015**, 100, 248-260	5.5	3
235	Multi-objective differential evolution algorithm for underwater image restoration **2015**,		5
234	Design of robust PSS in multimachine power systems using backtracking search algorithm **2015**,		15
233	Nonlinear Black-box System Identification through Neural Networks of a Hysteretic Piezoelectric Robotic Micromanipulator. *IFAC-PapersOnLine*, **2015**, 48, 409-414	0.7	10
232	Elephant Herding Optimization **2015**,		262
231	Earthworm optimization algorithm: a bio-inspired metaheuristic algorithm for global optimization problems. *International Journal of Bio-Inspired Computation*, **2015**, 1, 1	2.9	102
230	QUANTUM INSPIRED PARTICLE SWARM COMBINED WITH LIN-KERNIGHAN-HELSGAUN METHOD TO THE TRAVELING SALESMAN PROBLEM. *Pesquisa Operacional*, **2015**, 35, 465-488	0.3	4
229	Multiobjective Optimization of Transformer Design Using a Chaotic Evolutionary Approach. *IEEE Transactions on Magnetics*, **2014**, 50, 669-672	2	25
228	A genetic programming approach based on Lévy flight applied to nonlinear identification of a poppet valve. *Applied Mathematical Modelling*, **2014**, 38, 1729-1736	4.5	10
227	Room Temperature Multiferroic Behavior in Pb(Fe1/2Nb1/2)O3 Ceramics. *Ferroelectrics*, **2014**, 470, 221-226		6
226	Steady-State Tracking Properties for the Generalized Minimum Variance Controller: A Review, Proportional-Integral-Derivative Tuning, and Applications. *Industrial & Engineering Chemistry Research*, **2014**, 53, 1470-1477	3.9	2
225	Magnetic and structural investigations on La0.6Sr0.4MnO3 nanostructured manganite: Evidence of a ferrimagnetic shell. *Journal of Solid State Chemistry*, **2014**, 219, 87-92	3.3	18
224	Firefly as a novel swarm intelligence variable selection method in spectroscopy. *Analytica Chimica Acta*, **2014**, 852, 20-7	6.6	28
223	Binary optimization using hybrid particle swarm optimization and gravitational search algorithm. *Neural Computing and Applications*, **2014**, 25, 1423-1435	4.8	127
222	Optimal chiller loading for energy conservation using a new differential cuckoo search approach. *Energy*, **2014**, 75, 237-243	7.9	68

221	A backtracking search algorithm combined with Burger's chaotic map for parameter estimation of PEMFC electrochemical model. *International Journal of Hydrogen Energy*, **2014**, 39, 11165-11174	6.7	70
220	Multiobjective Cuckoo Search Applied to Radial Basis Function Neural Networks Training for System Identification. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2014**, 47, 2539-2544		6
219	Performance Improvement in the Pattern Classification of Nominal Data Sets Applying Multiple Correspondence Analysis. *Applied Mechanics and Materials*, **2014**, 670-671, 1482-1487	0.3	
218	Cascaded free search differential evolution applied to nonlinear system identification based on correlation functions and neural networks **2014**,		3
217	Competing anisotropies on 3d sub-lattice of YNi4CoxB compounds. *Journal of Applied Physics*, **2014**, 116, 063907	2.5	2
216	Magnetizer Design Based on a Quasi-Oppositional Gravitational Search Algorithm. *IEEE Transactions on Magnetics*, **2014**, 50, 705-708	2	7
215	Improved multiobjective particle swarm optimization for designing PID controllers applied to robotic manipulator **2014**,		4
214	A modified lambda algorithm for optimization in electromagnetics. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2014**, 33, 759-767	0.7	1
213	Hardware opposition-based PSO applied to mobile robot controllers. *Engineering Applications of Artificial Intelligence*, **2014**, 28, 64-77	7.2	14
212	Differential evolution based on truncated Lévy-type flights and population diversity measure to solve economic load dispatch problems. *International Journal of Electrical Power and Energy Systems*, **2014**, 57, 178-188	5.1	51
211	A self-adaptive chaotic differential evolution algorithm using gamma distribution for unconstrained global optimization. *Applied Mathematics and Computation*, **2014**, 234, 452-459	2.7	48
210	Structurally tuned multiferroic state in BiFeO3-based compounds. *Applied Physics A: Materials Science and Processing*, **2013**, 111, 563-567	2.6	10
209	Multiobjective scatter search approach with new combination scheme applied to solve environmental/economic dispatch problem. *Energy*, **2013**, 53, 14-21	7.9	40
208	A Multiobjective Firefly Approach Using Beta Probability Distribution for Electromagnetic Optimization Problems. *IEEE Transactions on Magnetics*, **2013**, 49, 2085-2088	2	14
207	Novel Gamma Differential Evolution Approach for Multiobjective Transformer Design Optimization. *IEEE Transactions on Magnetics*, **2013**, 49, 2121-2124	2	27
206	Hardware-based parallel firefly algorithm for embedded applications **2013**,		4
205	Population's variance-based Adaptive Differential Evolution for real parameter optimization **2013**,		17
204	Swim velocity profile identification by using a modified differential evolution method associated with RBF Neural Network **2013**,		2

203	Magnetostriction of Fe100☒Vx alloys for 5.2?x?40.7. *Journal of Alloys and Compounds*, **2013**, 553, 233-238	3.7	11
202	Modified imperialist competitive algorithm based on attraction and repulsion concepts for reliability-redundancy optimization. *Expert Systems With Applications*, **2013**, 40, 3794-3802	7.8	67
201	Improved firefly algorithm approach applied to chiller loading for energy conservation. *Energy and Buildings*, **2013**, 59, 273-278	7	117
200	Multiobjective Cuckoo Search Algorithm Based on Duffing's Oscillator Applied to Jiles-Atherton Vector Hysteresis Parameters Estimation. *IEEE Transactions on Magnetics*, **2013**, 49, 1745-1748	2	33
199	Hysteresis parameters estimation using a modified harmony search. *COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, **2013**, 32, 1974-1985	0.7	2
198	Particle Swarm Optimization and strength pareto to solve multiobjective optimization problems. *International Journal of Applied Electromagnetics and Mechanics*, **2013**, 43, 137-149	0.4	3
197	Wavelet neural network approach applied to biomechanics of swimming **2013**,		1
196	Firefly approach optimized wavenets applied to multivariable identification of a thermal process **2013**,		2
195	Robust design of a 2-DOF GMV controller: a direct self-tuning and fuzzy scheduling approach. *ISA Transactions*, **2012**, 51, 13-21	5.5	6
194	Solution of Jiles☒Atherton vector hysteresis parameters estimation by modified Differential Evolution approaches. *Expert Systems With Applications*, **2012**, 39, 2021-2025	7.8	26
193	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	7.8	49
192	Modified differential evolution approach for optimization of planar parallel manipulators force capabilities. *Expert Systems With Applications*, **2012**, 39, 6150-6156	7.8	11
191	Tuning of PID controller based on a multiobjective genetic algorithm applied to a robotic manipulator. *Expert Systems With Applications*, **2012**, 39, 8968-8974	7.8	139
190	A Modified Imperialist Competitive Algorithm for Optimization in Electromagnetics. *IEEE Transactions on Magnetics*, **2012**, 48, 579-582	2	30
189	Multiobjective Exponential Particle Swarm Optimization Approach Applied to Hysteresis Parameters Estimation. *IEEE Transactions on Magnetics*, **2012**, 48, 283-286	2	21
188	A Chaotic Approach of Differential Evolution Optimization Applied to Loudspeaker Design Problem. *IEEE Transactions on Magnetics*, **2012**, 48, 751-754	2	16
187	Multiobjective Biogeography-Based Optimization Based on Predator-Prey Approach. *IEEE Transactions on Magnetics*, **2012**, 48, 951-954	2	51
186	Bat-Inspired Optimization Approach for the Brushless DC Wheel Motor Problem. *IEEE Transactions on Magnetics*, **2012**, 48, 947-950	2	122

185	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	2	14
184	Accelerating the artificial bee colony algorithm by hardware parallel implementations **2012**,		4
183	Electrical Transmission Lines Design through Integer Multiobjective Particle Swarm Optimization Approach **2012**,		1
182	A GMDH polynomial neural network-based method to predict approximate three-dimensional structures of polypeptides. *Expert Systems With Applications*, **2012**, 39, 12268-12279	7.8	20
181	Firefly algorithm approach based on chaotic Tinkerbell map applied to multivariable PID controller tuning. *Computers and Mathematics With Applications*, **2012**, 64, 2371-2382	2.7	80
180	A comparison between three short-term shoreline prediction models. *Ocean and Coastal Management*, **2012**, 69, 102-110	3.9	27
179	Temperature dependence of coercive field of ZnFe2O4 nanoparticles. *Journal of Applied Physics*, **2012**, 111, 053917	2.5	22
178	A chaotic quantum-behaved particle swarm approach applied to optimization of heat exchangers. *Applied Thermal Engineering*, **2012**, 42, 119-128	5.8	78
177	Artificial Immune Network Approach with Beta Differential Operator Applied to Optimization of Heat Exchangers. *Lecture Notes in Computer Science*, **2012**, 166-177	0.9	
176	A chaotic firefly algorithm applied to reliability-redundancy optimization **2011**,		42
175	Polyclonal antibody to ovomucoid determination in gamma irradiated laying eggs. *Progress in Nuclear Energy*, **2011**, 53, 1148-1150	2.3	
174	Generalised minimum variance control state-space design. *IET Control Theory and Applications*, **2011**, 5, 1709-1715	2.5	15
173	Gaussian Artificial Bee Colony Algorithm Approach Applied to Loney's Solenoid Benchmark Problem. *IEEE Transactions on Magnetics*, **2011**, 47, 1326-1329	2	81
172	Adaptive cascade control of a hydraulic actuator with an adaptive dead-zone compensation and optimization based on evolutionary algorithms. *Expert Systems With Applications*, **2011**, 38, 12262-12269	7.8	33
171	Modified differential evolution approaches applied in exergoeconomic analysis and optimization of a cogeneration system. *Expert Systems With Applications*, **2011**,	7.8	1
170	Hardware Particle Swarm Optimization with passive congregation for embedded applications **2011**,		6
169	A Discrete Differential Evolution Approach with Local Search for Traveling Salesman Problems. *Studies in Computational Intelligence*, **2011**, 1-12	0.8	3
168	A hybrid shuffled complex evolution approach based on differential evolution for unconstrained optimization. *Applied Mathematics and Computation*, **2011**, 217, 5822-5829	2.7	27

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