An adaptive differential evolution algorithm with novel mutation and crossover strategies for global numerical optimization

#	Paper	IF	Citations
467	Differential evolution with dynamic strategy and parameter selection by detecting landscape modality. **2012**,		11
466	A hybrid strategy combining differential evolution with simplex gradient. **2012**,		
465	An Elite Decision Making Harmony Search Algorithm for Optimization Problem. **2012**, 2012, 1-15		3
464	Real Random Mutation Strategy for Differential Evolution. **2012**,		1
463	Ensemble based face recognition using discriminant PCA Features. **2012**,		10
462	Differential Evolution Algorithm: Recent Advances. *Lecture Notes in Computer Science*, **2012**, 30-46	0.9	9
461	Evolving cognitive and social experience in Particle Swarm Optimization through Differential Evolution: A hybrid approach. *Information Sciences*, **2012**, 216, 50-92	7.7	97
460	Differential evolution with neighborhood and direction information for numerical optimization. **2013**, 43, 2202-15		163
459	Multi-user detection in multi-carrier CDMA wireless broadband system using a binary adaptive differential evolution algorithm. **2013**,		1
458	Differential Evolution with Concurrent Fitness Based Local Search. **2013**,		15
457	Empirical investigations into the exponential crossover of differential evolutions. *Swarm and Evolutionary Computation*, **2013**, 9, 27-36	9.8	26
456	A CMA-ES super-fit scheme for the re-sampled inheritance search. **2013**,		20
455	. **2013**, 9, 668-678		32
454	Re-sampled inheritance search: high performance despite the simplicity. *Soft Computing*, **2013**, 17, 2235-2256	3.3	25
453	An Adaptive Differential Evolution Algorithm Based on New Diversity. **2013**, 6, 1094-1107		1
452	Micro-differential evolution with extra moves along the axes. **2013**,		10
451	Gaussian Bare-Bones Differential Evolution. **2013**, 43, 634-47		252

432	Software Tools for Nonlinear Optimization. **2014**, 32, 536-541		2
431	RDEL: Restart Differential Evolution algorithm with Local Search Mutation for global numerical optimization. **2014**, 15, 175-188		22
430	A HYBRID OPTIMIZATION METHOD BASED ON DIFFERENTIAL EVOLUTION AND HARMONY SEARCH. **2014**, 13, 1450001		1
429	Selecting strategies in particle swarm optimization by sampling-based landscape modality detection using inner products. **2014**,		1
428	Research on Route Obstacle Avoidance Task Planning Based on Differential Evolution Algorithm for AUV. *Lecture Notes in Computer Science*, **2014**, 106-113	0.9	5
427	A Separability Prototype for Automatic Memes with Adaptive Operator Selection. **2014**,		6
426	. **2014**,		
425	An adaptive differential evolution considering correlation of two algorithm parameters. **2014**,		4
424	Differential evolution using mutation strategy with adaptive greediness degree control. **2014**,		6
423	Effect of pseudo gradient on differential evolutionary for global numerical optimization. **2014**,		
422	Feedback controller design for a boost converter through evolutionary algorithms. **2014**, 7, 903-913		23
421	A cluster-based differential evolution with self-adaptive strategy for multimodal optimization. **2014**, 44, 1314-27		111
420	. **2014**,		2
419	Enhanced Differential Evolution Based on Adaptive Mutation and Wrapper Local Search Strategies for Global Optimization Problems. **2014**, 12, 1131-1143		1
418	Comparative analysis of a modified differential evolution algorithm based on bacterial mutation scheme. **2014**,		2
417	An adaptive invasion-based model for distributed Differential Evolution. *Information Sciences*, **2014**, 278, 653-672	7.7	21
416	An analysis on separability for Memetic Computing automatic design. *Information Sciences*, **2014**, 265, 1-22	7.7	76
415	An Improved Differential Evolution Algorithm for Practical Dynamic Scheduling in Steelmaking-Continuous Casting Production. **2014**, 18, 209-225		221

414	A comparative study: the effect of the perturbation vector type in the differential evolution algorithm on the accuracy of robot pose and heading estimation. **2014**, 6, 171-191		10
413	Repairing the crossover rate in adaptive differential evolution. **2014**, 15, 149-168		79
412	Comparing large number of metaheuristics for artificial neural networks training to predict water temperature in a natural river. **2014**, 64, 136-151		30
411	An adaptive differential evolution algorithm for global optimization in dynamic environments. **2014**, 44, 966-78		105
410	Linearized biogeography-based optimization with re-initialization and local search. *Information Sciences*, **2014**, 267, 140-157	7.7	62
409	Modified Teaching℃earning-Based Optimization algorithm for global numerical optimization℃A comparative study. *Swarm and Evolutionary Computation*, **2014**, 16, 28-37	9.8	92
408	Multi-strategy coevolving aging particle optimization. **2014**, 24, 1450008		54
407	Differential evolution enhanced with multiobjective sorting-based mutation operators. **2014**, 44, 2792-805		97
406	Differential evolution and underwater glider path planning applied to the short-term opportunistic sampling of dynamic mesoscale ocean structures. **2014**, 24, 95-108		42
405	Differential evolution improved with self-adaptive control parameters based on simulated annealing. *Swarm and Evolutionary Computation*, **2014**, 19, 52-67	9.8	42
404	Moving object detection using Markov Random Field and Distributed Differential Evolution. **2014**, 15, 121-136		10
403	Adaptive GSA-based optimal tuning of PI controlled servo systems with reduced process parametric sensitivity, robust stability and controller robustness. **2014**, 44, 1997-2009		32
402	Dynamic partition search algorithm for global numerical optimization. *Applied Intelligence*, **2014**, 41, 1108-1126	4.9	3
401	MIDACO software performance on interplanetary trajectory benchmarks. **2014**, 54, 744-754		54
400	Vectorized procedural models for animated trees reconstruction using differential evolution. *Information Sciences*, **2014**, 278, 1-21	7.7	24
399	Region based memetic algorithm for real-parameter optimisation. *Information Sciences*, **2014**, 262, 15-31	7.7	13
398	Extracting easy to understand summary using differential evolution algorithm. *Swarm and Evolutionary Computation*, **2014**, 16, 19-27	9.8	9
397	Differential evolution with two-level parameter adaptation. **2014**, 44, 1080-99		188

396	An Adaptive Differential Evolution Endmember Extraction Algorithm for Hyperspectral Remote Sensing Imagery. **2014**, 11, 1061-1065		32
395	Real-time magnetic dipole detection with single particle optimization. **2014**, 23, 460-473		10
394	Improving an adaptive differential evolution using hill-valley detection. **2015**,		1
393	A Novel Tournament Selection Based Differential Evolution Variant for Continuous Optimization Problems. **2015**, 2015, 1-21		4
392	Root Growth Optimizer with Self-Similar Propagation. **2015**, 2015, 1-12		3
391	Spacecraft Multiple-Impulse Trajectory Optimization Using Differential Evolution Algorithm with Combined Mutation Strategies and Boundary-Handling Schemes. **2015**, 2015, 1-13		6
390	A Dynamic Penalty Function for Constrained Optimization. *Lecture Notes in Computer Science*, **2015**, 261-272		1
389	Evolutionary Hybrid Configuration Applied to a Polymerization Process Modelling. *Lecture Notes in Computer Science*, **2015**, 237-249	0.9	1
388	Differential evolution with hybrid linkage crossover. *Information Sciences*, **2015**, 320, 244-287	7.7	46
387	A directional mutation operator for differential evolution algorithms. **2015**, 30, 529-548		33
386	On the performances of the flower pollination algorithm ⅡQualitative and quantitative analyses. **2015**, 34, 349-371		92
385	Adaptive differential evolution: A visual comparison. **2015**,		5
384	Continuous Parameter Pools in Ensemble Differential Evolution. **2015**,		5
383	A modified Differential Evolution with a random disturbance mechanism for global optimization. **2015**,		
382	System identification using differential evolution with mean-best mutation. **2015**,		
381	Greedy adaptation of control parameters in differential evolution for global optimization problems. **2015**,		8
380	An Empirical Analysis of Evolved Radial Basis Function Networks and Support Vector Machines with Mixture of Kernels. **2015**, 24, 1550013		5
379	Differential evolution with adaptive repository of strategies and parameter control schemes. **2015**,		

360	Regarding the rankings of optimization heuristics based on artificially-constructed benchmark functions. *Information Sciences*, **2015**, 297, 191-201	7.7	30
359	A sinusoidal differential evolution algorithm for numerical optimisation. **2015**, 27, 99-126		128
358	Differential evolution with auto-enhanced population diversity. **2015**, 45, 302-15		145
357	Differential Evolution with an Evolution Path: A DEEP Evolutionary Algorithm. **2015**, 45, 1798-810		104
356	An improved teaching学习-based optimization algorithm for solving global optimization problem. *Information Sciences*, **2015**, 297, 171-190	7.7	67
355	. **2015**, 30, 2350-2362		59
354	Improved differential evolution algorithm for nonlinear programming and engineering design problems. *Neurocomputing*, **2015**, 148, 628-640	5.4	18
353	Self-adaptive differential evolution algorithm with discrete mutation control parameters. *Expert Systems With Applications*, **2015**, 42, 1551-1572	7.8	74
352	A modified differential evolution-based combined routing and sleep scheduling scheme for lifetime maximization of wireless sensor networks. *Soft Computing*, **2015**, 19, 637-659	3.5	18
351	Improving an adaptive differential evolution using hill-valley detection. **2016**, 13, 1-13		1
350	Precision Position Control of a Voice Coil Motor Using Self-Tuning Fractional Order Proportional-Integral-Derivative Control. **2016**, 7,		6
349	A simple and efficient co-operative approach for solving multi-modal problems. **2016**,		
348	Packing programming of space station spacewalk events based on bin packing theory and differential evolution algorithm. **2016**,		4
347	Adaptive hybrid differential evolution with circular sliding window for large scale optimization. **2016**,		
346	Evolutionary Process: Parallelism Analysis of Differential Evolution Algorithm Based on Graph Theory. **2016**, 151-162		
345	A Hybrid Evolutionary Algorithm for Solving Function Optimization Problems. **2016**,		2
344	An adaptive differential evolution with adaptive archive selection and hill-valley detection. **2016**,		
343	An enhanced self-adaptive differential evolution based on simulated annealing for rule extraction and its application in recognizing oil reservoir. *Applied Intelligence*, **2016**, 44, 414-436	4.9	3

342	May the same numerical optimizer be used when searching either for the best or for the worst solution to a real-world problem?. *Information Sciences*, **2016**, 373, 124-148	7.7	2
341	Evolutionary clustering algorithm using criterion-knowledge-ranking for multi-objective optimization. **2016**,		2
340	Target shape design optimization by evolving B-splines with cooperative coevolution. **2016**, 48, 672-682		13
339	Experimental Investigation of Recombination Operators for Differential Evolution. **2016**,		2
338	A novel hybrid differential evolution algorithm with modified CoDE and JADE. **2016**, 47, 577-599		46
337	Searching for structural bias in particle swarm optimization and differential evolution algorithms. **2016**, 10, 307-353		14
336	An efficient image segmentation method based on a hybrid particle swarm algorithm with learning strategy. *Information Sciences*, **2016**, 369, 500-521	7.7	35
335	A Systematic Literature Review of Adaptive Parameter Control Methods for Evolutionary Algorithms. **2016**, 49, 1-35		59
334	Enhancing exploration in differential evolution via exponential recombination. **2016**,		
333	Evaluating the performance of SHADE with competing strategies on CEC 2014 single-parameter test suite. **2016**,		3
332	A self-adaptive binary differential evolution algorithm for large scale binary optimization problems. *Information Sciences*, **2016**, 367-368, 487-511	7.7	34
331	A differential-based harmony search algorithm for the optimization of continuous problems. *Expert Systems With Applications*, **2016**, 62, 317-332	7.8	22
330	Bacterial foraging optimization using novel chemotaxis and conjugation strategies. *Information Sciences*, **2016**, 363, 72-95	7.7	26
329	Cellular direction information based differential evolution for numerical optimization: an empirical study. *Soft Computing*, **2016**, 20, 2801-2827	3.5	24
328	Efficient stock price prediction using a Self Evolving Recurrent Neuro-Fuzzy Inference System optimized through a Modified Differential Harmony Search Technique. *Expert Systems With Applications*, **2016**, 52, 75-90	7.8	36
327	Adaptive composite operator selection and parameter control for multiobjective evolutionary algorithm. *Information Sciences*, **2016**, 339, 332-352	7.7	49
326	Self-adaptive differential evolution algorithm with crossover strategies adaptation and its application in parameter estimation. **2016**, 151, 164-171		29
325	Constrained minmax optimization via the improved constraint-activated differential evolution with escape vectors. *Expert Systems With Applications*, **2016**, 46, 336-345	7.8	2

324	Constrained differential evolution optimization for underwater glider path planning in sub-mesoscale eddy sampling. **2016**, 42, 93-118		43
323	Linkage based deferred acceptance optimization. *Information Sciences*, **2016**, 349-350, 65-76	7.7	
322	Adaptive differential evolution algorithm with novel mutation strategies in multiple sub-populations. *Computers and Operations Research*, **2016**, 67, 155-173	4.6	134
321	Recent advances in differential evolution IAn updated survey. *Swarm and Evolutionary Computation*, **2016**, 27, 1-30	9.8	889
320	Parameter control and hybridization techniques in differential evolution: a survey. **2016**, 45, 447-470		30
319	Fast Micro-Differential Evolution for Topological Active Net Optimization. **2016**, 46, 1411-23		20
318	On the importance of training methods and ensemble aggregation for runoff prediction by means of artificial neural networks. **2016**, 1-23		2
317	Multi-objective optimisation and decision-making of space station logistics strategies. **2016**, 47, 3132-3148		7
316	Private labels and retail assortment planning: a differential evolution approach. **2016**, 247, 677-692		7
315	Adaptive direction information in differential evolution for numerical optimization. *Soft Computing*, **2016**, 20, 465-494	3.5	20
314	Differential Evolution With Event-Triggered Impulsive Control. **2017**, 47, 244-257		80
313	Neighborhood guided differential evolution. *Soft Computing*, **2017**, 21, 4769-4812	3.5	17
312	Self-adaptive differential evolution with global neighborhood search. *Soft Computing*, **2017**, 21, 3759-3768	3.5	19
311	Novel discrete differential evolution methods for virtual tree pruning optimization. *Soft Computing*, **2017**, 21, 981-993	3.5	4
310	Review of Differential Evolution population size. *Swarm and Evolutionary Computation*, **2017**, 32, 1-24	9.8	122
309	Optimal layout and deployment for RFID system using a novel hybrid artificial bee colony optimizer based on bee life-cycle model. *Soft Computing*, **2017**, 21, 4055-4083	3.5	4
308	Multiple Exponential Recombination for Differential Evolution. **2017**, 47, 995-1006		52
307	Prior knowledge guided differential evolution. *Soft Computing*, **2017**, 21, 6841-6858	3.5	14

306	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
305	Multi-search differential evolution algorithm. *Applied Intelligence*, **2017**, 47, 231-256	4.9	20
304	Synthesis of Reconfigurable Antenna Array Using Differential Evolution Algorithm. **2017**, 63, 428-434		5
303	Differential evolution powered by collective information. *Information Sciences*, **2017**, 399, 13-29	7.7	59
302	Self-adaptive differential evolution algorithm with improved mutation mode. *Applied Intelligence*, **2017**, 47, 644-658	4.9	27
301	An enhanced artificial bee colony algorithm with adaptive differential operators. **2017**, 58, 480-494		29
300	Homeostasis mutation based differential evolution algorithm. **2017**, 32, 3525-3537		5
299	Neighborhood-adaptive differential evolution for global numerical optimization. **2017**, 59, 659-706		22
298	An efficient hybrid approach using differential evolution and practical swarm optimization. **2017**,		
297	A switched parameter differential evolution with optional blending crossover for scalable numerical optimization. **2017**, 57, 329-352		30
296	Adaptive Differential Evolution With Sorting Crossover Rate for Continuous Optimization Problems. **2017**, 47, 2742-2753		71
295	Cooperative Hierarchical PSO With Two Stage Variable Interaction Reconstruction for Large Scale Optimization. **2017**, 47, 2809-2823		24
294	Swarm Intelligence and Evolutionary Algorithms: Performance versus speed. *Information Sciences*, **2017**, 384, 34-85	7.7	60
293	Using differential evolution for fine tuning naïve Bayesian classifiers and its application for text classification. **2017**, 54, 183-199		56
292	Differential Evolution Using Fuzzy Logic and a Comparative Study with Other Metaheuristics. *Studies in Computational Intelligence*, **2017**, 257-268	0.8	12
291	An ensemble prediction intervals approach for short-term PV power forecasting. **2017**, 155, 1072-1083		58
290	Entanglement-Enhanced Quantum-Inspired Tabu Search Algorithm for Function Optimization. *IEEE Access*, **2017**, 5, 13236-13252	3.5	16
289	A noise resilient Differential Evolution with improved parameter and strategy control. **2017**,		5

| 288 | Enhanced individual-dependent differential evolution with population size adaptation. **2017**, | | 10 |

| 287 | MOPF solution methodology. **2017**, 11, 570-581 | | 50 |

| 286 | Are modern metaheuristics successful in calibrating simple conceptual rainfall⎯runoff models?. **2017**, 62, 606-625 | | 16 |

| 285 | Cloudde: A Heterogeneous Differential Evolution Algorithm and Its Distributed Cloud Version. **2017**, 28, 704-716 | | 100 |

| 284 | Modeling, identification and compensation of hysteresis nonlinearity for a piezoelectric nano-manipulator. **2017**, 28, 907-922 | | 9 |

| 283 | DE-caABC: differential evolution enhanced context-aware artificial bee colony algorithm for service composition and optimal selection in cloud manufacturing. **2017**, 90, 1085-1103 | | 38 |

| 282 | Improved Alopex-based evolutionary algorithm (AEA) by quadratic interpolation and its application to kinetic parameter estimations. **2017**, 51, 23-38 | | 16 |

| 281 | A Modified Differential Evolution With Distance-based Selection for Continuous Optimization in Presence of Noise. *IEEE Access*, **2017**, 5, 26944-26964 | 3.5 | 20 |

| 280 | Multi-Auv Distributed Task Allocation Based on the Differential Evolution Quantum Bee Colony Optimization Algorithm. **2017**, 24, 65-71 | | 4 |

| 279 | A self-switching base vector selection mechanism for differential mutation of differential evolution algorithm. **2017**, | | 4 |

| 278 | Synthesis of unequally spaced array using multi-stage differential evolution algorithm. **2017**, | | 0 |

| 277 | Improved Differential Evolution with Searching Pioneer for Solving Multi-modal Optimization Problems. **2017**, | | |

| 276 | Adaptive Differential Evolution with Landscape Modality Detection for Global Optimization. **2017**, | | |

| 275 | An adaptive differential evolution with exploitation and exploration by extreme individuals. **2017**, | | |

| 274 | Metasurface Salisbury screen: achieving ultra-wideband microwave absorption. *Optics Express*, **2017**, 25, 30241-30252 | 3.3 | 40 |

| 273 | Latest Stored Information Based Adaptive Selection Strategy for Multiobjective Evolutionary Algorithm. **2017**, 2017, 1-20 | | |

| 272 | TPAM. **2017**, | | 1 |

| 271 | A Self-Adaptive Differential Evolution with Dynamic Selecting Mutation Strategy. **2017**, | | 0 |

270	MDHS⊡PNN: A Hybrid FOREX Predictor Model Using a Legendre Polynomial Neural Network with a Modified Differential Harmony Search Technique. **2017**, 459-486		9
269	Differential evolution with individual-dependent topology adaptation. *Information Sciences*, **2018**, 450, 1-38	7.7	15
268	Performance of the air2stream model that relates air and stream water temperatures depends on the calibration method. **2018**, 561, 395-412		21
267	Algorithmic design issues in adaptive differential evolution schemes: Review and taxonomy. *Swarm and Evolutionary Computation*, **2018**, 43, 284-311	9.8	105
266	Differential evolution algorithm with multiple mutation strategies based on roulette wheel selection. *Applied Intelligence*, **2018**, 48, 3612-3629	4.9	27
265	DE-RCO: Rotating Crossover Operator With Multiangle Searching Strategy for Adaptive Differential Evolution. *IEEE Access*, **2018**, 6, 2970-2983	3.5	19
264	An improved multi-population ensemble differential evolution. *Neurocomputing*, **2018**, 290, 130-147	5.4	30
263	A Differential Evolution Performance Comparison: Comparing How Various Differential Evolution Algorithms Perform in Designing Microstrip Antennas and Arrays. **2018**, 60, 51-61		10
262	A hybrid modified differential evolution-pattern search approach for SSSC based damping controller design under communication constraints. **2018**, 9, 962-971		3
261	Enhancing the performance of differential evolution with covariance matrix self-adaptation. **2018**, 64, 227-243		21
260	Across Neighborhood Search algorithm: A comprehensive analysis. *Information Sciences*, **2018**, 435, 334-361	7.7	3
259	Step-by-step improvement of JADE and SHADE-based algorithms: Success or failure?. *Swarm and Evolutionary Computation*, **2018**, 43, 88-108	9.8	43
258	ssFPA/DE: an efficient hybrid differential evolution⊡flower pollination algorithm based approach. **2018**, 9, 216-229		3
257	Random Controlled Pool base Differential Evolution algorithm (RCPDE). *Intelligent Automation and Soft Computing*, **2018**, 24, 377-390	2.6	
256	Differential evolution with individual-dependent and dynamic parameter adjustment. *Soft Computing*, **2018**, 22, 5747-5773	3.5	16
255	A Comparative Study for Identifying the Chromosome-Wide Spatial Clusters from High-Throughput Chromatin Conformation Capture Data. **2018**, 15, 774-787		4
254	Constrained Nonlinear-Based Optimisation Applied to Fuzzy PID Controllers Tuning. **2018**, 20, 135-148		10
253	A new differential evolution algorithm for solving multimodal optimization problems with high dimensionality. *Soft Computing*, **2018**, 22, 4361-4388	3.5	4

252	A novel differential evolution algorithm with a self-adaptation parameter control method by differential evolution. *Soft Computing*, **2018**, 22, 6171-6190	3.5	12
251	Optimal solution to orbital three-player defense problems using impulsive transfer. *Soft Computing*, **2018**, 22, 2921-2934	3.5	4
250	DABE: Differential evolution in analogy-based software development effort estimation. *Swarm and Evolutionary Computation*, **2018**, 38, 158-172	9.8	34
249	Some metaheuristics should be simplified. *Information Sciences*, **2018**, 427, 32-62	7.7	41
248	Auto-selection mechanism of differential evolution algorithm variants and its application. **2018**, 270, 636-653		24
247	An Optimized Nonlinear Controller Design for Boiler-Turbine System Using Evolutionary Algorithms. **2018**, 64, 451-462		1
246	Enhancing differential evolution with interactive information. *Soft Computing*, **2018**, 22, 7919-7938	3.5	7
245	Adaptive multiple-elites-guided composite differential evolution algorithm with a shift mechanism. *Information Sciences*, **2018**, 422, 122-143	7.7	56
244	An Improved Pathological Brain Detection System Based on Two-Dimensional PCA and Evolutionary Extreme Learning Machine. **2017**, 42, 19		12
243	Population topologies for particle swarm optimization and differential evolution. *Swarm and Evolutionary Computation*, **2018**, 39, 24-35	9.8	91
242	Real-parameter unconstrained optimization based on enhanced fitness-adaptive differential evolution algorithm with novel mutation. *Soft Computing*, **2018**, 22, 3215-3235	3.5	89
241	A Proactive Robust Scheduling Method for Aircraft Carrier Flight Deck Operations with Stochastic Durations. **2018**, 2018, 1-38		4
240	Voltage and Frequency Control of Distribution Generation Unit in an Island Mode Microgrid Using Differential Evolution. **2018**,		0
239	An Adaptive Cuckoo Search Algorithm with Optional External Archive for Global Numerical Optimization. **2018**,		0
238	Empirical Evidences to Validate the Performance of Self-Switching Base Vector Based Mutation of Differential Evolution Algorithm. **2018**,		2
237	Analysing knowledge transfer in SHADE via complex network. **2018**,		
236	A New Binomial Crossover Considering Correlation Among Decision Variables for Adaptive Differential Evolution. **2018**,		
235	Evolutionary Optimization Based on Biological Evolution in Plants. **2018**, 126, 146-155		42

234	A Switched Parameter Differential Evolution with Multi-donor Mutation and Annealing Based Local Search for Optimization of Lennard-Jones Atomic Clusters. **2018**,		3
233	Solving the Global Trajectory Optimization Problem with Archive-Based Differential Evolution. **2018**,		
232	Differential Evolution with Proximity-Based Replacement Strategy and Elite Archive Mechanism for Global Optimization. *Lecture Notes in Computer Science*, **2018**, 76-89	0.9	
231	An enhanced utilization mechanism of population information for Differential evolution. **2018**, 1		1
230	A systematic mixed-integer differential evolution approach for water network operational optimization. **2018**, 474, 20170879		5
229	An Improved Test Selection Optimization Model Based on Fault Ambiguity Group Isolation and Chaotic Discrete PSO. **2018**, 2018, 1-10		6
228	Designing thermoplasmonic properties of metallic metasurfaces. **2018**, 20, 075004		9
227	Differential evolution algorithm applied to wireless sensor distribution on different geometric shapes with area and energy optimization. **2018**, 119, 14-23		15
226	Efficient Power Scheduling in Smart Homes Using Hybrid Grey Wolf Differential Evolution Optimization Technique with Real Time and Critical Peak Pricing Schemes. **2018**, 11, 384		36
225	Modified switching DE algorithm to facilitate reduction of PAPR in OFDM systems. **2018**, 29, 245-260		8
224	Multiobjective Optimization for a Wireless Ad Hoc Sensor Distribution on Shaped-Bounded Areas. **2018**, 2018, 1-22		5
223	Solving the economic load dispatch problems by a modified differential evolution algorithm based on two mutation strategies and one disturbance. **2018**,		1
222	Efficient Power Scheduling in Smart Homes Using Meta Heuristic Hybrid Grey Wolf Differential Evolution Optimization Technique. **2018**,		
221	Differential Evolution Algorithm With Tracking Mechanism and Backtracking Mechanism. *IEEE Access*, **2018**, 6, 44252-44267	3.5	11
220	A review of the recent use of Differential Evolution for Large-Scale Global Optimization: An analysis of selected algorithms on the CEC 2013 LSGO benchmark suite. *Swarm and Evolutionary Computation*, **2019**, 50, 100428	9.8	18
219	Historical and Heuristic-Based Adaptive Differential Evolution. **2019**, 49, 2623-2635		40
218	Testing A Multi-Operator based Differential Evolution Algorithm on the 100-Digit Challenge for Single Objective Numerical Optimization. **2019**,		5
217	A survey on artificial intelligence trends in spacecraft guidance dynamics and control. **2019**, 3, 287-299		72

216	Adaptive k-tournament mutation scheme for differential evolution. **2019**, 85, 105776		3
215	Research on the Adaptive Control in Sugar Evaporative Crystallization Using LSSVM and SaDE-ELM. **2019**, 15,		3
214	Oscillating U-Shaped Body for Underwater Piezoelectric Energy Harvester Power Optimization. **2019**, 10,		4
213	Joint Optimization of Conceptual Rainfall-Runoff Model Parameters and Weights Attributed to Meteorological Stations. **2019**, 33, 4509-4524		2
212	eta _CODE: A Differential Evolution With eta _Cauchy Operator for Global Numerical Optimization. *IEEE Access*, **2019**, 7, 88517-88533	3.5	5
211	A Modular Framework for Optimal Load Scheduling under Price-Based Demand Response Scheme in Smart Grid. **2019**, 7, 499		24
210	Underestimation-Assisted Global-Local Cooperative Differential Evolution and the Application to Protein Structure Prediction. **2020**, 24, 536-550		12
209	Enhanced global optimization methods applied to complex fisheries stock assessment models. **2019**, 77, 50-66		1
208	A Smart Algorithm for Quantization Table Optimization: A Case Study in JPEG Compression. **2019**, 257-280		2
207	Finding High-Dimensional D-Optimal Designs for Logistic Models via Differential Evolution. *IEEE Access*, **2019**, 7, 7133-7146	3.5	11
206	Finding Optimal Load Dispatch Solutions by Using a Proposed Cuckoo Search Algorithm. **2019**, 2019, 1-29		5
205	Bio-inspired optimization algorithms for real underwater image restoration. **2019**, 77, 49-65		15
204	Feature Optimization in Sentiment Analysis by Term Co-occurrence Fitness Evolution (TCFE). **2019**, 14, 16-36		2
203	Machine Learning and Evolutionary Techniques in Interplanetary Trajectory Design. **2019**, 191-210		9
202	An Improved Grey Wolf Optimizer Based on Differential Evolution and Elimination Mechanism. **2019**, 9, 7181		38
201	Differential Evolution With Adaptive Guiding Mechanism Based on Heuristic Rules. *IEEE Access*, **2019**, 7, 58023-58040	3.5	5
200	Parameter Combination Framework for the Differential Evolution Algorithm. **2019**, 12, 71		3
199	Optical Burst Routing by Balanced Wavelength Allocation Under Multi-objective Quality Metrics. **2019**, 107, 1093-1114		2

198	Developing optimal policies for reservoir systems using a multi-strategy optimization algorithm. **2019**, 80, 888-903		22
197	Cooperative differential evolution framework with utility-based adaptive grouping for large-scale optimization. **2019**, 11, 168781401983416		0
196	An Efficient Scheduling of User Appliances Using Multi Objective Optimization in Smart Grid. *Advances in Intelligent Systems and Computing*, **2019**, 371-384	0.4	2
195	A Differential Evolution Approach to Optimize Weights of Dynamic Time Warping for Multi-Sensor Based Gesture Recognition. **2019**, 19,		6
194	A Neighborhood-Assisted Framework for Differential Evolution. *IEEE Access*, **2019**, 7, 44338-44358	3.5	2
193	Adaptively Calling Selection Based on Distance Sorting in CoBiDE. **2019**, 306-316		
192	An individual dependent multi-colony artificial bee colony algorithm. *Information Sciences*, **2019**, 485, 114-140	7.7	28
191	Fitting procedure based on Differential Evolution to evaluate impedance parameters of metal coating systems. **2019**, 36, 2960-2982		4
190	A Multi-population Helper and Equivalent Objective Differential Evolution Algorithm. **2019**,		1
189	An Improved Differential Evolution Algorithm for Operating Optimization of a Distillation Unit. **2019**,		0
188	An integrated configuration optimization approach for 6-dof serial manipulators on performance indices. **2019**,		
187	Elitist Reinforcement Strategy for Differential Evolution. **2019**,		
186	Adaptive Differential Evolution Algorithm Based on Restart Mechanism and Direction Information. *IEEE Access*, **2019**, 7, 166803-166814	3.5	1
185	Efficiency Improvement of Differential Evolution Algorithm Using a Novel Mutation Method. **2019**,		1
184	Face Image Super-Resolution Using Differential Evolutionary Algorithm. *Advances in Intelligent Systems and Computing*, **2019**, 635-644	0.4	5
183	A Review on Scale Factor Strategies in Differential Evolution Algorithm. *Advances in Intelligent Systems and Computing*, **2019**, 925-943	0.4	12
182	A multi-objective immune algorithm with dynamic population strategy. *Swarm and Evolutionary Computation*, **2019**, 50, 100477	9.8	9
181	New adaption based mutation operator on differential evolution algorithm. **2019**, 12, 389-397		2

180	A hybrid forecasting system based on fuzzy time series and multi-objective optimization for wind speed forecasting. **2019**, 235, 786-801		85
179	Relationship Between Calibration Time and Final Performance of Conceptual Rainfall-Runoff Models. **2019**, 33, 19-37		5
178	Self-adaptive differential evolution with multiple strategies for dynamic optimization of chemical processes. **2019**, 31, 2041-2061		9
177	Association rule mining based parameter adaptive strategy for differential evolution algorithms. *Expert Systems With Applications*, **2019**, 123, 54-69	7.8	15
176	HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. *Information Sciences*, **2019**, 477, 186-202	7.7	31
175	Novel mutation strategy for enhancing SHADE and LSHADE algorithms for global numerical optimization. *Swarm and Evolutionary Computation*, **2019**, 50, 100455	9.8	95
174	A performance-driven multi-algorithm selection strategy for energy consumption optimization of sea-rail intermodal transportation. *Swarm and Evolutionary Computation*, **2019**, 44, 1-17	9.8	12
173	Phasor particle swarm optimization: a simple and efficient variant of PSO. *Soft Computing*, **2019**, 23, 9701-9718	3.5	51
172	Adaptive guided differential evolution algorithm with novel mutation for numerical optimization. **2019**, 10, 253-277		100
171	Differential evolution with Gaussian mutation and dynamic parameter adjustment. *Soft Computing*, **2019**, 23, 1615-1642	3.5	27
170	Differential evolution algorithm with dichotomy-based parameter space compression. *Soft Computing*, **2019**, 23, 3643-3660	3.5	6
169	Differential Evolution With Underestimation-Based Multimutation Strategy. **2019**, 49, 1353-1364		30
168	Self-adaptive parameters in differential evolution based on fitness performance with a perturbation strategy. *Soft Computing*, **2019**, 23, 3113-3128	3.5	5
167	Differential evolution algorithm with strategy adaptation and knowledge-based control parameters. **2019**, 51, 219-253		19
166	Reviewing and Benchmarking Parameter Control Methods in Differential Evolution. **2020**, 50, 1170-1184		18
165	An adaptive differential evolution with combined strategy for global numerical optimization. *Soft Computing*, **2020**, 24, 6277-6296	3.5	58
164	A novel cuckoo search algorithm under adaptive parameter control for global numerical optimization. *Soft Computing*, **2020**, 24, 4917-4940	3.5	6
163	Reusing the Past Difference Vectors in Differential Evolution-A Simple But Significant Improvement. **2020**, 50, 4821-4834		13

162	A simple differential evolution with time-varying strategy for continuous optimization. *Soft Computing*, **2020**, 24, 2727-2747	3.5	27
161	Enhancing differential evolution algorithm with repulsive behavior. *Soft Computing*, **2020**, 24, 9279-9305	3.5	3
160	Reliability reallocation for cost uncertainty of fuel cell vehicles via improved differential evolution algorithm. **2020**, 36, 303-314		15
159	Self-adaptive collective intelligence-based mutation operator for differential evolution algorithms. **2020**, 76, 876-896		4
158	A review on computational intelligence for identification of nonlinear dynamical systems. **2020**, 99, 1709-1761		39
157	Kinship-based differential evolution algorithm for unconstrained numerical optimization. **2020**, 99, 1341-1361		3
156	Hybrid Turbo Coding PTS with Enhanced Switching Algorithm Employing DE to Carry Out Reduction in PAPR in AUL-Based MIMO-OFDM. **2020**, 45, 1821-1839		4
155	Evolutionary Optimization Under Uncertainty: The Strategies to Handle Varied Constraints for Fluid Catalytic Cracking Operation. **2020**, PP,		2
154	Adaptive differential evolution with a new joint parameter adaptation method. *Soft Computing*, **2020**, 24, 12801-12819	3.5	3
153	Estimation of total dissolved solids, electrical conductivity, salinity and groundwater levels using novel learning machines. **2020**, 79, 1		5
152	A probability-based core dandelion guided dandelion algorithm and application to traffic flow prediction. *Engineering Applications of Artificial Intelligence*, **2020**, 96, 103922	7.2	1
151	Time Series Forecasting Using Differential Evolution-Based ANN Modelling Scheme. **2020**, 45, 11129-11146		1
150	Mendelian evolutionary theory optimization algorithm. *Soft Computing*, **2020**, 24, 14345-14390	3.5	13
149	Clustering based Adaptive Differential Evolution for Numerical Optimization. **2020**,		1
148	A Novel Simulated Annealing Based Strategy for Balanced UAV Task Assignment and Path Planning. **2020**, 20,		14
147	A Novel Distributive Population-Based Differential Evolution Algorithm for SLM Scheme to Reduce PAPR in Massive MIMO-OFDM Systems. **2020**, 1, 1		0
146	Adaptive Differential Evolution Based on Successful Experience Information. *IEEE Access*, **2020**, 8, 164611-164636	3.5	7
145	Multi-Objective Economic Scheduling of a Shipboard Microgrid Based on Self-Adaptive Collective Intelligence DE Algorithm. *IEEE Access*, **2020**, 8, 73204-73219	3.5	3

144	A Collective Intelligence Based Differential Evolution Algorithm for Optimizing the Structure and Parameters of a Neural Network. *IEEE Access*, **2020**, 8, 69601-69614	3.5	5
143	A case learning-based differential evolution algorithm for global optimization of interplanetary trajectory design. **2020**, 94, 106451		10
142	Helper and Equivalent Objectives: Efficient Approach for Constrained Optimization. **2020**,		2
141	Analysis of New Distributed Differential Evolution Algorithm with Best Determination Method and Species Evolution. **2020**, 167, 263-272		2
140	Differential evolutionary algorithm with an evolutionary state estimation method and a two-level selection mechanism. *Soft Computing*, **2020**, 24, 11561-11581	3.5	2
139	A Hybrid Differential Evolution Algorithm and Its Application in Unmanned Combat Aerial Vehicle Path Planning. *IEEE Access*, **2020**, 8, 17691-17712	3.5	37
138	A simple two-phase differential evolution for improved global numerical optimization. *Soft Computing*, **2020**, 24, 6151-6167	3.5	4
137	Differential Evolution: A review of more than two decades of research. *Engineering Applications of Artificial Intelligence*, **2020**, 90, 103479	7.2	124
136	Multi-objective differential evolution algorithm with fuzzy inference-based adaptive mutation factor for Pareto optimum design of suspension system. *Swarm and Evolutionary Computation*, **2020**, 54, 100666	9.8	12
135	Correlations Between the Scaling Factor and Fitness Values in Differential Evolution. *IEEE Access*, **2020**, 8, 32100-32120	3.5	2
134	PAELC: Predictive Analysis by Ensemble Learning and Classification heart disease detection using beat sound. **2020**, 23, 31-43		3
133	An improved Differential Evolution Algorithm with Self Adaptive Mutation Strategies for Global Optimization. **2020**,		2
132	Quadratic Interpolation Based Simultaneous Heat Transfer Search Algorithm and Its Application to Chemical Dynamic System Optimization. **2020**, 8, 478		1
131	Electrical Resistivity Inversion Based on a Hybrid CCSFLA-MSVR Method. **2020**, 51, 2871-2890		3
130	An improved differential evolution algorithm with dual mutation strategies collaboration. *Expert Systems With Applications*, **2020**, 153, 113451	7.8	27
129	An optimisation method for a co-operative driving system at road junctions. **2021**, 1-13		2
128	On the Expressive Power of Scientific Manuscripts. **2021**, 9, 269-279		3
127	A Fast and efficient stochastic opposition-based learning for differential evolution in numerical optimization. *Swarm and Evolutionary Computation*, **2021**, 60, 100768	9.8	12

126	A novel mutation strategy selection mechanism for differential evolution based on local fitness landscape. **2021**, 77, 5726-5756		0
125	Differential evolution with adaptive mutation strategy based on fitness landscape analysis. *Information Sciences*, **2021**, 549, 142-163	7.7	21
124	An innovative hybrid algorithm to solve nonconvex economic load dispatch problem with or without valve point effects. **2021**, 31,		4
123	JDF-DE: a differential evolution with Jrand number decreasing mechanism and feedback guide technique for global numerical optimization. *Applied Intelligence*, **2021**, 51, 359-376	4.9	4
122	An innovative hybrid algorithm for bound-unconstrained optimization problems and applications. 1		1
121	Radial Basis Function Neural Network Optimal Modeling for Phase-Only Array Pattern Nulling. **2021**, 1-1		
120	Advanced switching DE algorithm based PTS companding technique for PAPR reduction in OFDM systems. **2021**, 77, 109-128		0
119	IADE: An Improved Differential Evolution Algorithm to Preserve Sustainability in a 6G Network. **2021**, 1-1		1
118	A Hybrid Dynamic Probability Mutation Particle Swarm Optimization for Engineering Structure Design. **2021**, 2021, 1-32		0
117	Design and applications of an advanced hybrid meta-heuristic algorithm for optimization problems. 1		4
116	State-of-the-Art Reviews of Meta-Heuristic Algorithms with Their Novel Proposal for Unconstrained Optimization and Applications. **2021**, 28, 4049-4115		2
115	Differential Evolution Optimal Parameters Tuning with Artificial Neural Network. *Mathematics*, **2021**, 9, 427	2.3	6
114	Study on the Learning in Intelligent Control Using Neural Networks Based on Back-Propagation and Differential Evolution. **2022**, 17-29		1
113	A Customized Differential Evolutionary Algorithm for Bounded Constrained Optimization Problems. **2021**, 2021, 1-24		0
112	Scheduling independent tasks in cloud environment based on modified differential evolution. e6256		2
111	An Enhancing Differential Evolution Algorithm with a Rank-Up Selection: RUSDE. *Mathematics*, **2021**, 9, 569	2.3	1
110	A novel weighted graph representation-based method for structural topology optimization. **2021**, 153, 102977		1
109	Optimal Selection of Features Using Artificial Electric Field Algorithm for Classification. **2021**, 46, 8355-8369		4

108	Integrated production-inventory-routing problem for multi-perishable products under uncertainty by meta-heuristic algorithms. 1-21		6
107	Multimodal Optimization of Permutation Flow-Shop Scheduling Problems Using a Clustering-Genetic-Algorithm-Based Approach. **2021**, 11, 3388		5
106	Enhancing differential evolution algorithm through a population size adaptation strategy. 1		1
105	Comparison of Adaptive Differential Evolution Algorithms on the MOEA/D-DE Framework. **2021**,		
104	An Adaptive Differential Evolution Algorithm Utilizing Failure Information and Success Information. **2021**,		
103	GTOPX space mission benchmarks. **2021**, 14, 100666		1
102	An adaptive hybrid differential evolution algorithm for continuous optimization and classification problems. **2021**, 33, 10841		9
101	Optimal Singular Value Decomposition Based Big Data Compression Approach in Smart Grids. **2021**, 57, 3296-3305		2
100	Hip-DE: Historical population based mutation strategy in differential evolution with parameter adaptive mechanism. *Information Sciences*, **2021**, 562, 44-77	7.7	9
99	Improved based Differential Evolution Algorithm using New Environment Adaption Operator. 1		1
98	Path planning of AUV during diving process based on behavioral decision-making. **2021**, 234, 109073		2
97	Prediction of the Amount of Soil Discharged by an Earth Pressure Balanced Shield Machine Based on Feature Engineering. **2021**, 25, 4868		0
96	Wavelet-Based Elman Neural Network with the Modified Differential Evolution Algorithm for Forecasting Foreign Exchange Rates. **2021**, 9, 421-439		1
95	Hyper-heuristic approach: automatically designing adaptive mutation operators for evolutionary programming. 1		0
94	Designing an uncertain bi-objective green leagile capacitated lot sizing problem considering FM/M/C queue system. **2021**, ahead-of-print,		
93	Differential evolution: A recent review based on state-of-the-art works. **2021**,		17
92	Control architecture of autonomous underwater vehicle for coverage mission in irregular region. **2021**, 236, 109407		2
91	QANA: Quantum-based avian navigation optimizer algorithm. *Engineering Applications of Artificial Intelligence*, **2021**, 104, 104314	7.2	40

90	Research on Data Analysis of Traditional Chinese Medicine with Improved Differential Evolution Clustering Algorithm. **2021**, 2021, 4468741		0
89	Performance analysis of dynamic optimization algorithms using relative error distance. *Swarm and Evolutionary Computation*, **2021**, 66, 100930	9.8	1
88	2D multi-area coverage path planning using L-SHADE in simulated ocean survey. **2021**, 112, 107754		1
87	Performance evaluation of metaheuristics algorithms for workload prediction in cloud environment. **2021**, 113, 107895		3
86	Differential Evolution Mutations: Taxonomy, Comparison and Convergence Analysis. *IEEE Access*, **2021**, 9, 68629-68662	3.5	7
85	Parameter Adaptation in Differential Evolution Based on Diversity Control. *Lecture Notes in Computer Science*, **2013**, 146-157	0.9	1
84	Fuzzy Clustering of Image Pixels with a Fitness-Based Adaptive Differential Evolution. *Lecture Notes in Computer Science*, **2013**, 179-188	0.9	2
83	Differential Evolution with Controlled Annihilation and Regeneration of Individuals and A Novel Mutation Scheme. *Lecture Notes in Computer Science*, **2013**, 286-297	0.9	1
82	Differential Evolution with Two Subpopulations. *Lecture Notes in Computer Science*, **2015**, 1-13	0.9	1
81	Adaptive Differential Evolution Based Feature Selection and Parameter Optimization for Advised SVM Classifier. *Lecture Notes in Computer Science*, **2015**, 401-410	0.9	4
80	Archive Analysis in SHADE. *Lecture Notes in Computer Science*, **2017**, 688-699	0.9	1
79	RDE - Reconstructed Mutation Strategy for Differential Evolution Algorithm. *Advances in Intelligent Systems and Computing*, **2018**, 76-85	0.4	1
78	PSO-Tuned Control Parameter in Differential Evolution Algorithm. *Lecture Notes in Computer Science*, **2012**, 417-424	0.9	1
77	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. *Lecture Notes in Computer Science*, **2014**, 615-626	0.9	11
76	Multi-objective optimal short-term planning of renewable distributed generations and capacitor banks in power system considering different uncertainties including plug-in electric vehicles. **2020**, 119, 105885		30
75	A Jaya algorithm based wrapper method for optimal feature selection in supervised classification. **2020**,		14
74	A modified particle swarm optimization algorithm ICPSODE. **2017**,		4
73	Active Chatter Suppression in Turning by Simultaneous Adjustment of Amplitude and Frequency of Spindle Speed Variation. **2020**, 142,		5

72	Divide and conquer algorithm for nondiffracting beams. **2019**, 36, 1968-1976		4
71	Tournament selection mechanism based random vector selection in differential evolution algorithm. **2017**, 4, 147-158		2
70	The SOS Platform: Designing, Tuning and Statistically Benchmarking Optimisation Algorithms. *Mathematics*, **2020**, 8, 785	2.3	12
69	Semi Advised SVM with Adaptive Differential Evolution Based Feature Selection for Skin Cancer Diagnosis. *Journal of Computer and Communications*, **2015**, 03, 184-190	0.8	4
68	Adaptive differential evolution with ensembling operators for continuous optimization problems. *Swarm and Evolutionary Computation*, **2021**, 100994	9.8	1
67	An efficient differential evolution algorithm based on orthogonal learning and elites local search mechanisms for numerical optimization. *Knowledge-Based Systems*, **2022**, 235, 107636	7.3	2
66	Taboo Evolutionary Programming Approach to Optimal Transfer from Earth to Mars. *Lecture Notes in Computer Science*, **2011**, 122-131	0.9	1
65	Differential Evolution with a Relational Neighbourhood-Based Strategy for Numerical Optimization. *Lecture Notes in Computer Science*, **2012**, 189-197	0.9	
64	A Modified Differential Evolution for Symbol Detection in MIMO-OFDM System. *Lecture Notes in Computer Science*, **2013**, 236-247	0.9	
63	A Game Theoretic Approach for Reliable Power Supply in Islanded DG Grids. *Lecture Notes in Computer Science*, **2013**, 487-498	0.9	
62	Adaptive Differential Evolution with Difference Mean Based Perturbation for Practical Engineering Optimization Problems. *Lecture Notes in Computer Science*, **2013**, 310-320	0.9	
61	Self-Adaptive DE Applied to Controller Design. *Journal of Computer and Communications*, **2014**, 02, 46-53	0.8	0
60	A New Differential Evolution Algorithm with Alopex-Based Local Search. *Lecture Notes in Computer Science*, **2016**, 420-431	0.9	
59	Numerical Optimization of ESAⓈ Messenger Space Mission Benchmark. *Lecture Notes in Computer Science*, **2017**, 725-737	0.9	2
58	Detecting Potential Design Weaknesses in SHADE Through Network Feature Analysis. *Lecture Notes in Computer Science*, **2017**, 662-673	0.9	
57	An Adaptive Differential Evolution with Learning Parameters According to Groups Defined by the Rank of Objective Values. *Lecture Notes in Computer Science*, **2017**, 411-419	0.9	1
56	The Influence of Archive Size to SHADE. *Advances in Intelligent Systems and Computing*, **2017**, 517-527	0.4	
55	Enhanced Archive for SHADE. *Advances in Intelligent Systems and Computing*, **2019**, 40-55	0.4	

54	Event-Triggering Impulsive Differential Evolution. **2019**, 1-35		
53	DIFFERENTIAL EVOLUTION WITH DYNAMIC ADAPTATION OF PARAMETERS BASED ON A FUZZY LOGIC AUGMENTATION APPROACH. *Journal of Universal Mathematics*, **2019**, 2, 183-207	0.1	
52	Application of Evolutionary Algorithms to Power System Stabilizer Design. *Studies in Computational Intelligence*, **2020**, 29-62	0.8	1
51	Adaptive Directional Mutation for an Adaptive Differential Evolution Algorithm. **2020**,		0
50	Dual mutations collaboration mechanism with elites guiding and inferiors eliminating techniques for differential evolution. *Soft Computing*, 1	3.5	
49	An Introduction to Evolutionary and Memetic Algorithms for Parameter Optimization. *Adaptation, Learning, and Optimization*, **2022**, 37-63	0.7	
48	A Two-Stage Differential Evolution Algorithm with Mutation Strategy Combination. *Symmetry*, **2021**, 13, 2163	2.7	0
47	Differential evolution with dynamic combination based mutation operator and two-level parameter adaptation strategy. *Expert Systems With Applications*, **2022**, 192, 116298	7.8	0
46	Big Data Compression in Smart Grids via Optimal Singular Value Decomposition. **2020**,		1
45	Analysis of Structural Bias in Differential Evolution Configurations. *Studies in Computational Intelligence*, **2022**, 1-22	0.8	1
44	A self-adaptive gradient descent search algorithm for fully-connected neural networks. *Neurocomputing*, **2022**, 478, 70-80	5.4	5
43	Differential Evolution Algorithm with Hierarchical Fair Competition Model. *Intelligent Automation and Soft Computing*, **2022**, 33, 1045-1062	2.6	20
42	Convergence Track Based Adaptive Differential Evolution Algorithm (CTbADE). *Computers, Materials and Continua*, **2022**, 72, 1229-1250	3.9	
41	A Self-adaptive Differential Evolution Algorithm for Solving Optimization Problems. *Lecture Notes in Networks and Systems*, **2022**, 68-76	0.5	
40	War Strategy Optimization Algorithm: A New Effective Metaheuristic Algorithm for Global Optimization. *IEEE Access*, **2022**, 10, 25073-25105	3.5	16
39	Self-adaptive DE algorithm without niching parameters for multi-modal optimization problems. *Applied Intelligence*, 1	4.9	0
38	Using Spatial Neighborhoods for Parameter Adaptation: An Improved Success History based Differential Evolution. *Swarm and Evolutionary Computation*, **2022**, 101057	9.8	0
37	A differential evolution algorithm with the guided movement for population and its application to interplanetary transfer trajectory design. *Engineering Applications of Artificial Intelligence*, **2022**, 110, 104727	7.2	1

36	Generating a robust baseline schedule for the robust discrete time/resource trade-off problem under work content uncertainty. *Computers and Operations Research*, **2022**, 143, 105795	4.6	
35	Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution Method. *Mathematics*, **2021**, 9, 3329	2.3	
34	New State-of-the-Art Results on ESA∏ Messenger Space Mission Benchmark. *Transactions on Computational Science and Computational Intelligence*, **2021**, 669-681	0.9	
33	A Novel Differential Evolution Algorithm for Tone Reservation based Peak to Average Power Ratio Reduction Technique in Orthogonal Frequency Division Multiplexing Systems. *Swarm and Evolutionary Computation*, **2022**, 101086	9.8	0
32	A ranking-based adaptive cuckoo search algorithm for unconstrained optimization. *Expert Systems With Applications*, **2022**, 117428	7.8	2
31	Magnetic and electric Purcell factor control through geometry optimization of high index dielectric nanostructures. *Optics Express*, **2022**, 30, 20360	3.3	0
30	An adaptive dimension differential evolution algorithm based on ranking scheme for global optimization. *PeerJ Computer Science*, 8, e1007	2.7	
29	An efficient differential evolution with fitness-based dynamic mutation strategy and control parameters. *Knowledge-Based Systems*, **2022**, 251, 109280	7.3	1
28	An adaptive differential evolution framework based on population feature information. *Information Sciences*, **2022**, 608, 1416-1440	7.7	0
27	Feature Optimization in Sentiment Analysis by Term Co-occurrence Fitness Evolution (TCFE). **2022**, 496-518		
26	Energy Saving with Zero Hot Spots: A Novel Power Control Approach for Sustainable and Stable Data Centers. **2022**, 14, 9005		
25	A Feature Selection Based on Improved Artificial Hummingbird Algorithm Using Random Opposition-Based Learning for Solving Waste Classification Problem. **2022**, 10, 2675		1
24	An improved system for efficient shape optimization of vehicle aerodynamics with ∏oisy∏ computations. **2022**, 65,		
23	Assessing ranking and effectiveness of evolutionary algorithm hyperparameters using global sensitivity analysis methodologies. **2022**, 74, 101130		0
22	Surrogate-based decision-making of community building portfolios under uncertain consequences and risk attitudes. **2022**, 268, 114749		1
21	Event-Triggering Impulsive Differential Evolution. **2022**, 983-1017		0
20	An Enhanced Decomposition-Based Multi-Objective Evolutionary Algorithm with a Self-Organizing Collaborative Scheme.		0
19	An enhanced decomposition-based multi-objective evolutionary algorithm with a self-organizing collaborative scheme. **2023**, 213, 118915		1

18	A novel self-adaptation and sorting selection-based differential evolutionary algorithm applied to water distribution system optimization. **2022**, 71, 1068-1082	o
17	Automatic Parking Path Optimization Based on Immune Moth Flame Algorithm for Intelligent Vehicles. **2022**, 14, 1923	o
16	Dual adaption based evolutionary algorithm for optimized the smart healthcare communication service of the Internet of Things in smart city. **2022**, 101893	o
15	Auto-Diversified Ameliorated MultiPopulation-Based Ensemble Differential Evolution. **2023**, 177-191	o
14	Differential evolution optimization of Rutherford backscattering spectra. **2022**, 132, 165302	o
13	Enhanced expected hypervolume improvement criterion for parallel multi-objective optimization. **2022**, 101903	o
12	Differential Evolution and Its Applications in Image Processing Problems: A Comprehensive Review.	o
11	A novel dynamic planning mechanism for allocating electric vehicle charging stations considering distributed generation and electronic units. **2022**, 8, 14658-14672	o
10	Differential Evolution with Adaptive Grid-Based Mutation Strategy for Multi-Objective Optimization. **2022**, 10, 2316	o
9	Differential evolution with variable leader-adjoint populations.	o
8	Calibration of conceptual rainfall-runoff models by selected differential evolution and particle swarm optimization variants.	o
7	Quorum sensing centered bacterial horde algorithm for global optimization.	o
6	Parameter control for differential evolution by storage of successful values at an individual level. **2023**, 68, 101985	o
5	Combined forecasting tool for renewable energy management in sustainable supply chains. **2023**, 179, 109237	o
4	DC-SHADE-IF: An infeasibleFeasible regions constrained optimization approach with diversity controller. **2023**, 224, 119999	o
3	Deep Reinforcement Learning for Adaptive Parameter Control in Differential Evolution for Multi-Objective Optimization. **2022**,	o
2	How Much Do Swarm Intelligence and Evolutionary Algorithms Improve Over a Classical Heuristic From 1960?. **2023**, 11, 19775-19793	o
1	A Novel Differential Evolution Algorithm Based on Local Fitness Landscape Information for Optimization Problems. **2023**, E106.D, 601-616	o