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Differential Evolution Algorithm With Strategy Adaptation for Global Numerical Optimization

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2298	The Weather Satellite Program. 1970 , 79, 95-104		1
2297	Prognostic factors in resected primary small bowel tumors. 1998 , 15, 42-51		35
2296	Fast Transcoding of Compressed Bitstreams by Reusing Incoming Motion Vectors. 1998,		
2295	Ensemble for Solving Quadratic Assignment Problems. 2009,		2
2294	A Scalability Test for Accelerated DE Using Generalized Opposition-Based Learning. 2009,		22
2293	An Improved Differential Evolution Alogorithm for Optimization. 2009,		
2292	SRDE. 2009 ,		6
2291	Differential Evolution Using a Neighborhood-Based Mutation Operator. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 526-553	15.6	812
2290	Using Differential Evolution for a Subclass of Graph Theory Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 1190-1192	15.6	23
2289	Multi-objective optimization using self-adaptive differential evolution algorithm. 2009,		56
2288	Seeker Optimization Algorithm for Optimal Reactive Power Dispatch. 2009 , 24, 1218-1231		280
2287	Dynamic optimization using Self-Adaptive Differential Evolution. 2009,		75
2286	A simple adaptive Differential Evolution algorithm. 2009,		9
2285	Multi-objective differential evolution with diversity enhancement. 2010 , 11, 538-543		13
2284	Recent advances in differential evolution: a survey and experimental analysis. 2010 , 33, 61-106		696
2283	Scale factor inheritance mechanism in distributed differential evolution. 2010 , 14, 1187-1207		78
2282	DE/BBO: a hybrid differential evolution with biogeography-based optimization for global numerical optimization. 2010 , 15, 645-665		257

2281	History mechanism supported differential evolution for chess evaluation function tuning. 2010 , 15, 667-683	9
2280	Three modified versions of differential evolution algorithm for continuous optimization. 2010 , 15, 803-830	18
2279	Iterated local search with Powellâ method: a memetic algorithm for continuous global optimization. 2010 , 2, 69-83	35
2278	Ensemble of Constraint Handling Techniques. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 561-579	313
2277	Population-Based Algorithm Portfolios for Numerical Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 782-800	131
2276	Utilization of SOMA and differential evolution for robust stabilization of chaotic Logistic equation. 2010 , 60, 1026-1037	38
2275	Kernel-induced fuzzy clustering of image pixels with an improved differential evolution algorithm. 2010 , 180, 1237-1256	99
2274	Ensemble of niching algorithms. 2010 , 180, 2815-2833	105
2273	Hydrophone calibration based on microcontrollers for acoustic detection of UHE neutrinos. 2010,	
2272	Toeplitz-structured Chaotic Sensing Matrix for Compressive Sensing. 2010,	1
2272	Toeplitz-structured Chaotic Sensing Matrix for Compressive Sensing. 2010, APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO THE DESIGN OF MULTI-BAND MICROWAVE FILTERS FOR WIRELESS COMMUNICATIONS. 2010, 109, 123-137	22
2271	APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO	
2271	APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO THE DESIGN OF MULTI-BAND MICROWAVE FILTERS FOR WIRELESS COMMUNICATIONS. 2010 , 109, 123-137	22
2271	APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO THE DESIGN OF MULTI-BAND MICROWAVE FILTERS FOR WIRELESS COMMUNICATIONS. 2010, 109, 123-137 The utility of scale factor adaptation in differential evolution. 2010,	3
2271 2270 2269 2268	APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO THE DESIGN OF MULTI-BAND MICROWAVE FILTERS FOR WIRELESS COMMUNICATIONS. 2010, 109, 123-137 The utility of scale factor adaptation in differential evolution. 2010, Competitive differential evolution for constrained problems. 2010,	22 3 14
2271 2270 2269 2268	APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO THE DESIGN OF MULTI-BAND MICROWAVE FILTERS FOR WIRELESS COMMUNICATIONS. 2010, 109, 123-137 The utility of scale factor adaptation in differential evolution. 2010, Competitive differential evolution for constrained problems. 2010, Linear antenna array synthesis using fitness-adaptive differential evolution algorithm. 2010,	22 3 14
2271 2270 2269 2268	APPLICATION OF A DIFFERENTIAL EVOLUTION ALGORITHM WITH STRATEGY ADAPTATION TO THE DESIGN OF MULTI-BAND MICROWAVE FILTERS FOR WIRELESS COMMUNICATIONS. 2010, 109, 123-137 The utility of scale factor adaptation in differential evolution. 2010, Competitive differential evolution for constrained problems. 2010, Linear antenna array synthesis using fitness-adaptive differential evolution algorithm. 2010, Two-stage based ensemble optimization for large-scale global optimization. 2010,	22 3 14 10 31

2263 A	novel differential evolution algorithm for global search and sensor selection. 2010,	1
2262 Di	fferential evolution using a localized Cauchy mutation operator. 2010 ,	7
2261 A 0	dvanced Evolutionary Algorithms. 2010 , 39-132	
2260 RE	EVISITING OVERLOOKED FOUNDATIONS OF EVOLUTIONARY COMPUTATION: PART I. 2010 , 41, 343-358	1
	fferential evolution with ensemble of constraint handling techniques for solving CEC 2010 enchmark problems. 2010 ,	49
2258 A	fitness-based adaptation scheme for control parameters in differential evolution. 2010,	3
2257 Se	elf-adaptive differential evolution based on PSO learning strategy. 2010 ,	22
2256 A 0	daptive strategy selection in differential evolution. 2010 ,	30
	obability matching-based adaptive strategy selection vs. uniform strategy selection within fferential evolution. 2010 ,	2
2254 En	hanced competitive differential evolution for constrained optimization. 2010,	4
2252	hierarchical differential evolution algorithm with multiple sub-population parallel search echanism. 2010 ,	
2252 A	differential evolution for optimisation in noisy environment. 2010 , 2, 152	5
2251 P-	ADE: Self-adaptive differential evolution with fast and reliable convergence performance. 2010,	1
2250 Di	fferential Evolution with Neighborhood Search. 2010 ,	
	tness-AUC bandit adaptive strategy selection vs. the probability matching one within differential volution. 2010 ,	10
2248 Th	ne optimization of contoured beam reflector antenna based on DEGL. 2010 ,	1
2247 . 2	010,	3
	elf-adaptive Differential Evolution with Modified Multi-Trajectory Search for CECâ¤010 Large Scale ptimization. 2010 , 1-10	6

2245	Differential Evolution Based Ascent Phase Trajectory Optimization for a Hypersonic Vehicle. 2010 , 11-18	2
2244	Dynamic Grouping Crowding Differential Evolution with Ensemble of Parameters for Multi-modal Optimization. 2010 , 19-28	8
2243	Differential Evolution Based Fuzzy Clustering. 2010, 38-45	5
2242	Multi Sensor Fusion Using Fitness Adaptive Differential Evolution. 2010 , 62-70	
2241	Using Differential Evolution for the Transportation Problem with Fuzzy Coefficients. 2010,	
2240	A Modified Binary Differential Evolution Algorithm. 2010 , 49-57	25
2239	Contemporary Computing. 2010 ,	1
2238	Experimental Comparison of Methods to Handle Boundary Constraints in Differential Evolution. 2010 , 411-420	18
2237	An improved self-adaptive differential evolution algorithm in single objective constrained real-parameter optimization. 2010 ,	21
2236	Differential Evolution enhanced by neighborhood search. 2010 ,	5
2235	Large scale global optimization using self-adaptive differential evolution algorithm. 2010,	34
2234	Chaos driven Differential Evolution in the task of chaos control optimization. 2010,	1
2233	Constrained real-parameter optimization using a Differential Evolution algorithm. 2011,	2
2232	Super-fit and population size reduction in compact Differential Evolution. 2011,	24
2231	Constrained multi-objective optimization algorithm with an ensemble of constraint handling methods. 2011 , 43, 403-416	100
2230	Integrated Differential Evolution for Global Optimization and Its Performance for Modeling Vaporâ[iquid Equilibrium Data. 2011 , 50, 10047-10061	17
2229	Global supervision for compact Differential Evolution. 2011,	6
2228	Constrained evolutionary optimization by means of (I) I) differential evolution and improved adaptive trade-off model. 2011 , 19, 249-85	69

2227	Various mutation strategies in enhanced competitive differential evolution for constrained optimization. 2011 ,	2
2226	DMEA âlʿAn algorithm that combines differential mutation with the fitness proportionate selection. 2011 ,	5
2225	Differential evolution combined with constraint consensus for constrained optimization. 2011,	7
2224	Differential evolution with multiple strategies for solving CEC2011 real-world numerical optimization problems. 2011 ,	37
2223	Solution of combined economic and emission dispatch problems using hybrid craziness-based PSO with differential evolution. 2011 ,	9
2222	. 2011,	
2221	A differential covariance matrix adaptation evolutionary algorithm for global optimization. 2011,	8
2220	Parallel Migration Models Applied to Competitive Differential Evolution. 2011,	
2219	Evaluation of Two-Stage Ensemble Evolutionary Algorithm for Numerical Optimization. 2011, 539-548	
2218	Opposition-Based Learning in Compact Differential Evolution. 2011 , 264-273	10
2217	Comparative Study of Derivative Free Optimization Algorithms. 2011 , 7, 592-600	36
2216	Sentence selection for generic document summarization using an adaptive differential evolution algorithm. 2011 , 1, 213-222	54
2215	Differential Evolution as Applied to Electromagnetics. 2011 , 53, 38-49	324
2214	Application of differential evolution algorithm to the design of a dual frequency microstrip antenna. 2011 ,	O
2213	Ensemble strategies in Compact Differential Evolution. 2011,	9
2212	A new differential evolution algorithm with dynamic population partition and local restart. 2011 ,	7
2211	A novel artificial bee colony algorithm with diversity strategy. 2011 ,	10
2210	Development of DE based adaptive techniques for nonlinear system identification. 2011,	

2209	Enhanced differential evolution with adaptive strategies for numerical optimization. 2011 , 41, 397-413		162
2208	IMPROVED DIFFERENTIAL EVOLUTION STRATEGY FOR ANTENNA ARRAY PATTERN SYNTHESIS PROBLEMS. 2011 , 113, 429-441		19
2207	NEAR OPTIMAL ROBUST ADAPTIVE BEAMFORMING APPROACH BASED ON EVOLUTIONARY ALGORITHM. 2011 , 29, 157-174		9
2206	AN IMPROVED DIFFERENTIAL EVOLUTION FOR AUTONOMOUS DEPLOYMENT AND LOCALIZATION OF SENSOR NODES. 2011 , 29, 289-309		4
2205	Team communications and academic R&D performance: A case of National Telecommunication Program of Taiwan. 2011 ,		
2204	Hybrid Differential Evolution with Biogeography-Based Optimization for Design of a Reconfigurable Antenna Array with Discrete Phase Shifters. 2011 , 2011, 1-12		19
2203	Two algorithmic enhancements for the parallel differential evolution. 2011 , 3, 20		5
2202	Design of 2-D Recursive Filters Using Self-adaptive Mutation Differential Evolution Algorithm. 2011 , 4, 644-654		6
2201	A New Framework with FDPP-LX Crossover for Real-Coded Genetic Algorithm. 2011 , E94-A, 1417-1425		4
2200	Optimizing neural networks for river flow forecasting âlEvolutionary Computation methods versus the LevenbergâMarquardt approach. 2011 , 407, 12-27		77
2199	Evolutionary Computation Meets Machine Learning: A Survey. 2011 , 6, 68-75		150
2198	. 2011 , 60, 2458-2470		88
2197	Compact Differential Evolution. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 32-54	15.6	191
2196	Differential Evolution: A Survey of the State-of-the-Art. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 4-31	15.6	3202
2195	Fixed-Structure \$H_{infty}\$ Controller Synthesis Based on Differential Evolution With Level Comparison. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 120-129	15.6	28
2194	Improving Classical and Decentralized Differential Evolution With New Mutation Operator and Population Topologies. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 67-98	15.6	125
2193	Enhancing Differential Evolution Utilizing Proximity-Based Mutation Operators. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 99-119	15.6	295
2192	Differential Evolution With Composite Trial Vector Generation Strategies and Control Parameters. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 55-66	15.6	1009

2191	A Memetic Algorithm for Global Optimization in Chemical Process Synthesis Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 659-683	31
2190	Evolutionary Computation on Programmable Robust IIR Filter Pole-Placement Design. 2011 , 60, 1469-1479	37
2189	Adaptive strategy selection in differential evolution for numerical optimization: An empirical study. 2011 , 181, 5364-5386	112
2188	Differential evolution for parameterized procedural woody plant models reconstruction. 2011 , 11, 4904-4912	33
2187	Evaluation of integrated differential evolution and unified bare-bones particle swarm optimization for phase equilibrium and stability problems. 2011 , 310, 129-141	22
2186	A hybrid global optimization algorithm and its application to parameter estimation problems. 2011 , 6, 379-390	9
2185	Self-adaptive randomized and rank-based differential evolution for multimodal problems. 2011 , 51, 607-640	8
2184	Evolutionary multiobjective optimization of cellular base station locations using modified NSGA-II. 2011 , 17, 597-609	23
2183	Role differentiation and malleable mating for differential evolution: an analysis on large-scale optimisation. 2011 , 15, 2109-2126	24
2182	Scalability of generalized adaptive differential evolution for large-scale continuous optimization. 2011 , 15, 2141-2155	82
2181	Self-adaptive differential evolution algorithm using population size reduction and three strategies. 2011 , 15, 2157-2174	131
2180	Self-adaptive differential evolution with multi-trajectory search for large-scale optimization. 2011 , 15, 2175-2185	116
2179	Improving the performance of differential evolution algorithm using Cauchy mutation. 2011 , 15, 991-1007	63
2178	Use of the q-Gaussian mutation in evolutionary algorithms. 2011 , 15, 1523-1549	8
2177	Classification-based self-adaptive differential evolution with fast and reliable convergence performance. 2011 , 15, 1581-1599	18
2176	Precise determination of the orbital elements of binary stars using Differential Evolution. 2011 , 334, 103-114	3
2175	Constrained self-adaptive differential evolution based design of robust optimal fixed structure controller. 2011 , 24, 1084-1093	9
2174	Self-adaptive learning based particle swarm optimization. 2011 , 181, 4515-4538	243

(2011-2011)

2173	Differential evolution for optimizing the positioning of prototypes in nearest neighbor classification. 2011 , 44, 901-916	98
2172	Composed compact differential evolution. 2011 , 4, 17-29	9
2171	Gene sorting in differential evolution with cross-generation mutation. 2011 , 54, 268-278	2
2170	Immigrant schemes for evolutionary algorithms in dynamic environments: Adapting the replacement rate. 2011 , 54, 1352-1364	4
2169	Disturbed Exploitation compact Differential Evolution for limited memory optimization problems. 2011 , 181, 2469-2487	104
2168	A study on scale factor in distributed differential evolution. 2011 , 181, 2488-2511	101
2167	An improved differential evolution algorithm with fitness-based adaptation of the control parameters. 2011 , 181, 3749-3765	116
2166	A differential evolution algorithm with self-adapting strategy and control parameters. 2011 , 38, 394-408	121
2165	Multi-operator based evolutionary algorithms for solving constrained optimization problems. 2011 , 38, 1877-1896	147
2164	Differential evolution algorithm with ensemble of parameters and mutation strategies. 2011 , 11, 1679-1696	906
2164 2163	Differential evolution algorithm with ensemble of parameters and mutation strategies. 2011 , 11, 1679-1696 Parameter tuning for configuring and analyzing evolutionary algorithms. 2011 , 1, 19-31	906 377
2163		
2163	Parameter tuning for configuring and analyzing evolutionary algorithms. 2011 , 1, 19-31	377
2163	Parameter tuning for configuring and analyzing evolutionary algorithms. 2011 , 1, 19-31 Harmony search with differential mutation based pitch adjustment. 2011 , Multi-population differential evolution with adaptive parameter control for global optimization. 2011 ,	377 7
2163 2162 2161	Parameter tuning for configuring and analyzing evolutionary algorithms. 2011, 1, 19-31 Harmony search with differential mutation based pitch adjustment. 2011, Multi-population differential evolution with adaptive parameter control for global optimization. 2011,	377 7
2163 2162 2161 2160	Parameter tuning for configuring and analyzing evolutionary algorithms. 2011, 1, 19-31 Harmony search with differential mutation based pitch adjustment. 2011, Multi-population differential evolution with adaptive parameter control for global optimization. 2011, Adaptive parameter selection for strategy adaptation in differential evolution. 2011,	377 7 14
2163 2162 2161 2160 2159	Parameter tuning for configuring and analyzing evolutionary algorithms. 2011, 1, 19-31 Harmony search with differential mutation based pitch adjustment. 2011, Multi-population differential evolution with adaptive parameter control for global optimization. 2011, Adaptive parameter selection for strategy adaptation in differential evolution. 2011, Self-adaptive mutation in the differential evolution. 2011,	3777147

2155	A normative differential evolution approach for estimation of heat transfer coefficient during freezing treatment by inverse analysis. 2011 ,	3
2154	Enhancing differential evolution with effective evolutionary local search in memetic framework. 2011 ,	1
2153	Sparse Linear Array Synthesis With Multiple Constraints Using Differential Evolution With Strategy Adaptation. 2011 , 10, 670-673	60
2152	Peak-to-average power ratio reduction in OFDM systems using an adaptive differential evolution algorithm. 2011 ,	3
2151	. 2011,	27
2150	A GENERALIZED HYBRID GENERATION SCHEME OF DIFFERENTIAL EVOLUTION FOR GLOBAL NUMERICAL OPTIMIZATION. 2011 , 10, 35-65	4
2149	An empirical study on Differential Evolution algorithm and its several variants. 2011,	2
2148	Ensemble differential evolution algorithm for CEC2011 problems. 2011 ,	29
2147	An adaptive differential evolution with unsymmetrical mutation. 2011,	1
2146	Directed differential evolution based on directional derivative for numerical optimization problems. 2011 ,	3
2145	Self-adaptive Differential Evolution with Taboo List for Constrained Optimization Problems and Its Application to Pooling Problems. 2011 , 29, 572-576	3
2144	Design of Dual Offset Shaped Reflector Antenna Based on Degl Algorithm. 2011 , 25, 723-732	7
2143	Estimating markov switching model using differential evolution algorithm in prospective infectious disease outbreak detection. 2012 ,	
2142	Improving differential evolution algorithm by synergizing different improvement mechanisms. 2012 , 7, 1-32	10
2141	Differential Evolution with Mixed Distribution Mutation Operation. 2012,	
2140	SDE. 2012 ,	6
2139	Adaptive differential evolution with optimization state estimation. 2012,	6
2138	Principal coordinate strategy. 2012 ,	

2137	Differential evolution with dynamic strategy and parameter selection by detecting landscape modality. 2012 ,	11
2136	Comprehensive comparison of convergence performance of optimization algorithms based on nonparametric statistical tests. 2012 ,	5
2135	Self-adaptive genetically programmed differential evolution. 2012,	
2134	A multi-algorithm framework for the evolvement of analog circuits. 2012 ,	1
2133	Automatic design of deterministic sequences of decisions for a repeated imitation game with action-state dependency. 2012 ,	
2132	Surrogate model assisted ensemble differential evolution algorithm. 2012,	6
2131	PERFORMANCE COMPARISON OF DIFFERENTIAL EVOLUTION AND SOMA ON CHAOS CONTROL OPTIMIZATION PROBLEMS. 2012 , 22, 1230025	2
2130	Enhanced mutation strategy for differential evolution. 2012,	20
2129	An empirical study on differential evolution for optimal power allocation in WSNs. 2012,	3
2128	An Efficient Evolutionary Approach to Parameter Identification in a Building Thermal Model. 2012 , 42, 957-969	15
2127	Adaptive-Differential-Evolution-Based Design of Two-Channel Quadrature Mirror Filter Banks for Sub-Band Coding and Data Transmission. 2012 , 42, 1613-1623	23
2126	A Hybrid Differential Evolution Algorithm with Opposition-based Learning. 2012,	1
2125	Optimal Multi-objective Reactive Power Dispatch Considering Static Voltage Stability Based on Dynamic Multi-group Self-Adaptive Differential Evolution Algorithm. 2012 ,	
2124	Ensemble Differential Evolution with dynamic subpopulations and adaptive clearing for solving dynamic optimization problems. 2012 ,	2
2123	Tabu search with multi-level neighborhood structures for high dimensional problems. 2012 , 37, 189-206	29
2122	Self-Adaptive Evolutionary Extreme Learning Machine. 2012 , 36, 285-305	192
2121	Differential Evolution with Adaptive Mutation and Parameter Control Using Lvy Probability Distribution. 2012 , 27, 1035-1055	17
2120	Compact Differential Evolution Light: High Performance Despite Limited Memory Requirement and Modest Computational Overhead. 2012 , 27, 1056-1076	31

2119	On an evolutionary approach for constrained optimization problem solving. 2012 , 12, 3208-3227	42
2118	A P systems based hybrid optimization algorithm for parameter estimation of FCCU reactorategenerator model. 2012 , 211-212, 508-518	13
2117	Artificial Movements Inspired for Global Optimization. 2012 , 41, 312-318	
2116	Real Random Mutation Strategy for Differential Evolution. 2012 ,	1
2115	Integrating a differential evolution feature weighting scheme into prototype generation. 2012 , 97, 332-343	21
2114	A group search optimization based on improved small world and its application on neural network training in ammonia synthesis. 2012 , 97, 94-107	9
2113	Optimal synthesis of linear antenna array with composite differential evolution algorithm. 2012 , 19, 1780-1787	11
2112	Fuzzy optimization for a batch simultaneous saccharification and co-fermentation process by hybrid differential evolution. 2012 ,	
2111	Differential evolution with a mix of Constraint Consenus methods for solving a real-world Optimization Problem. 2012 ,	4
2110	Effectively multi-swarm sharing management for differential evolution. 2012,	
2109	Remote sensing image subpixel mapping based on adaptive differential evolution. 2012 , 42, 1306-29	90
2108	Control parameters self-adaptation in differential evolution based on intrisic structure information. 2012 ,	1
2107	An improved differential evolution for constrained optimization with dynamic constraint-handling mechanism. 2012 ,	1
2106	Tree model reconstruction innovization using multi-objective differential evolution. 2012,	3
2105	Performance Comparison of Parameter Variation Operators in Self-Adaptive Differential Evolution Algorithms. 2012 ,	1
2105 2104		3
	Algorithms. 2012, Modeling the term structure of government bond yields with a differential evolution algorithm.	

(2012-2012)

2101	An Adaptive Memetic Algorithm using a synergy of Differential Evolution and Learning Automata. 2012 ,	8
2100	ADEMO/D: Adaptive Differential Evolution for Multiobjective Problems. 2012,	8
2099	Hybridizing Differential Evolution and Particle Swarm Optimization to Design Powerful Optimizers: A Review and Taxonomy. 2012 , 42, 744-767	118
2098	Opposition-based adaptive differential evolution. 2012,	1
2097	Strategy Adaptative Memetic Crowding differential evolution for multimodal optimization. 2012,	3
2096	Modelling and Trading the DJIA Financial Index Using Neural Networks Optimized with Adaptive Evolutionary Algorithms. 2012 , 453-462	2
2095	Parameters adaptation in Differential Evolution. 2012,	9
2094	Self-adaptive differential evolution algorithm with a small and varying population size. 2012,	25
2093	Efficient constraint handling for optimal reactive power dispatch problems. 2012, 5, 28-36	86
2092	Differential Evolution Algorithm: Recent Advances. 2012 , 30-46	9
	Differential Evolution Algorithm: Recent Advances. 2012, 30-46 An intuitive distance-based explanation of opposition-based sampling. 2012, 12, 2828-2839	9
2091	An intuitive distance-based explanation of opposition-based sampling. 2012 , 12, 2828-2839 Repeated weighted boosting search for discrete or mixed search space and multiple-objective	42
2091	An intuitive distance-based explanation of opposition-based sampling. 2012, 12, 2828-2839 Repeated weighted boosting search for discrete or mixed search space and multiple-objective optimisation. 2012, 12, 2740-2755 Evolving cognitive and social experience in Particle Swarm Optimization through Differential	4 ²
2091 2090 2089 2088	An intuitive distance-based explanation of opposition-based sampling. 2012, 12, 2828-2839 Repeated weighted boosting search for discrete or mixed search space and multiple-objective optimisation. 2012, 12, 2740-2755 Evolving cognitive and social experience in Particle Swarm Optimization through Differential Evolution: A hybrid approach. 2012, 216, 50-92 Transforming geocentric cartesian coordinates to geodetic coordinates by using differential search	4 ² 7 97
2091 2090 2089 2088	An intuitive distance-based explanation of opposition-based sampling. 2012, 12, 2828-2839 Repeated weighted boosting search for discrete or mixed search space and multiple-objective optimisation. 2012, 12, 2740-2755 Evolving cognitive and social experience in Particle Swarm Optimization through Differential Evolution: A hybrid approach. 2012, 216, 50-92 Transforming geocentric cartesian coordinates to geodetic coordinates by using differential search algorithm. 2012, 46, 229-247	4 ² 7 97 295
2091 2090 2089 2088 2087	An intuitive distance-based explanation of opposition-based sampling. 2012, 12, 2828-2839 Repeated weighted boosting search for discrete or mixed search space and multiple-objective optimisation. 2012, 12, 2740-2755 Evolving cognitive and social experience in Particle Swarm Optimization through Differential Evolution: A hybrid approach. 2012, 216, 50-92 Transforming geocentric cartesian coordinates to geodetic coordinates by using differential search algorithm. 2012, 46, 229-247 A novel modified binary differential evolution algorithm and its applications. 2012, 98, 55-75	42 7 97 295 85

 $^{2083} \ \ ^{2083} \ \ ^{2083}$ Estimating Differential Evolution crossover parameter with VNS approach for continuous global optimization. **2012**, 39, 257-264

2082	Memetic algorithms and memetic computing optimization: A literature review. 2012 , 2, 1-14	380
2081	Self-adaptive evolutionary image registration using differential evolution and artificial immune systems. 2012 , 33, 2065-2070	14
2080	Identification of fractional-order systems via a switching differential evolution subject to noise perturbations. 2012 , 376, 3113-3120	17
2079	A hybrid co-evolutionary cultural algorithm based on particle swarm optimization for solving global optimization problems. 2012 , 98, 76-89	56
2078	Differential Evolution With Neighborhood Mutation for Multimodal Optimization. <i>IEEE Transactions</i> on Evolutionary Computation, 2012 , 16, 601-614	299
2077	Modified Mutation Operators for Differential Evolution. 2012 , 579-588	1
2076	Hybrid differential evolution with artificial bee colony and its application for design of a reconfigurable antenna array with discrete phase shifters. 2012 , 6, 1573-1582	20
2075	Cognitive learning in differential evolution and its application to model order reduction problem for single-input single-output systems. 2012 , 4, 209-229	35
2074	Proceedings of the 2011 2nd International Congress on Computer Applications and Computational Science. 2012 ,	
2073	Evolutionary Pinning Control and Its Application in UAV Coordination. 2012 , 8, 828-838	113
2072	Differential Evolution Algorithm Aided Minimum Symbol Error Rate Multi-User Detection for Multi-User OFDM/SDMA Systems. 2012 ,	4
2071	Classification-based self-adaptive differential evolution and its application in multi-lateral multi-issue negotiation. 2012 , 6, 442	1
2070	Cloud Model-Based Differential Evolution Algorithm for Optimization Problems. 2012,	6
2069	Swarm and Evolutionary Computation. 2012,	2
2068	Improved differential evolution algorithms. 2012,	8
2067	Development of adaptive channel equalization using DE. 2012,	2
2066	Large Scale Optimization Based on Co-ordinated Bacterial Dynamics and Opposite Numbers. 2012 , 770-777	1

2065	Advances in Swarm Intelligence. 2012 ,	3
2064	Digital IIR filters design using differential evolution algorithm with a controllable probabilistic population size. 2012 , 7, e40549	15
2063	Tracking Differential Evolution Algorithms: An Adaptive Approach through Multinomial Distribution Tracking with Exponential Forgetting. 2012 , 214-222	3
2062	A survey on algorithm adaptation in evolutionary computation. 2012 , 7, 16-31	17
2061	Self-adaptive learning based immune algorithm. 2012 , 19, 1021-1031	9
2060	Opposition-based learning in the shuffled differential evolution algorithm. 2012 , 16, 1303-1337	57
2059	Self-adaptive differential evolution algorithm with the constrained domination principle for constrained multi-objective optimization. 2012 , 16, 1353-1372	62
2058	A self adaptive hybrid differential evolution algorithm for phase balancing of unbalanced distribution system. 2012 , 42, 91-97	23
2057	A novel clustering-based differential evolution with 2 multi-parent crossovers for global optimization. 2012 , 12, 663-681	36
2056	An efficient constraint handling method with integrated differential evolution for numerical and engineering optimization. 2012 , 37, 74-88	30
2055	A Differential Covariance Matrix Adaptation Evolutionary Algorithm for real parameter optimization. 2012 , 182, 199-219	66
2054	Enhancing the search ability of differential evolution through orthogonal crossover. 2012 , 185, 153-177	182
2053	Ockhamâl Razor in memetic computing: Three stage optimal memetic exploration. 2012 , 188, 17-43	114
2052	Differential Evolution algorithm with Separated Groups for multi-dimensional optimization problems. 2012 , 216, 33-46	45
2051	Comparison of evolutionary computation techniques for noise injected neural network training to estimate longitudinal dispersion coefficients in rivers. 2012 , 39, 1354-1361	29
2050	A co-evolutionary differential evolution algorithm for solving minâfhax optimization problems implemented on GPU using C-CUDA. 2012 , 39, 10324-10333	27
2049	Design of differential evolution algorithm-based robust fuzzy logic power system stabiliser using minimum rule base. 2012 , 6, 121	21
2048	Parameter estimation of fuzzy neural network controller based on a modified differential evolution. 2012 , 89, 178-192	16

2047	On convergence of differential evolution over a class of continuous functions with unique global optimum. 2012 , 42, 107-24	69
2046	An adaptive differential evolution algorithm with novel mutation and crossover strategies for global numerical optimization. 2012 , 42, 482-500	407
2045	High-Dimensional Waveform Inversion With Cooperative Coevolutionary Differential Evolution Algorithm. 2012 , 9, 297-301	33
2044	Turbo Multi-User Detection for OFDM/SDMA Systems Relying on Differential Evolution Aided Iterative Channel Estimation. 2012 , 60, 1621-1633	35
2043	Learning-enhanced differential evolution for numerical optimization. 2012 , 16, 303-330	41
2042	Self-adaptive differential evolution incorporating a heuristic mixing of operators. 2013 , 54, 771-790	34
2041	Novel Low-Complexity Partial Transmit Sequences Scheme for PAPR Reduction in OFDM Systems Using Adaptive Differential Evolution Algorithm. 2013 , 71, 679-694	20
2040	Performance evaluation of an improved harmony search algorithm for numerical optimization: Melody Search (MS). 2013 , 26, 1301-1321	47
2039	Hybrid self-adaptive learning based particle swarm optimization and support vector regression model for grade estimation. 2013 , 118, 179-190	24
2038	Two-stage ensemble memetic algorithm: Function optimization and digital IIR filter design. 2013 , 220, 408-424	24
2037	Soft Computing Models in Industrial and Environmental Applications. 2013,	1
2036	A space search optimization algorithm with accelerated convergence strategies. 2013 , 13, 4659-4675	15
2035	Differential evolution with ranking-based mutation operators. 2013 , 43, 2066-81	301
2034	Differential evolution with neighborhood and direction information for numerical optimization. 2013 , 43, 2202-15	163
2033	Competitive Differential Evolution Algorithm in Comparison with Other Adaptive Variants. 2013, 133-142	3
2032	PDECO: parallel differential evolution for clusters optimization. 2013 , 34, 1046-59	27
2031	Fuzzy logic-based diversity-controlled self-adaptive differential evolution. 2013 , 45, 899-915	6
2030	A new hybrid differential evolution with simulated annealing and self-adaptive immune operation. 2013 , 66, 1948-1960	15

(2013-2013)

2029	Differential evolution with automatic parameter configuration for solving the CEC2013 competition on Real-Parameter Optimization. 2013 ,	19
2028	Success-history based parameter adaptation for Differential Evolution. 2013,	376
2027	. 2013,	9
2026	Differential Evolution with Concurrent Fitness Based Local Search. 2013,	15
2025	Structured Population Size Reduction Differential Evolution with Multiple Mutation Strategies on CEC 2013 real parameter optimization. 2013 ,	28
2024	Real Parameter Single Objective Optimization using self-adaptive differential evolution algorithm with more strategies. 2013 ,	19
2023	Accelerating IEC and EC searches with elite obtained by dimensionality reduction in regression spaces. 2013 , 6, 27-40	16
2022	Distributed optimization in wireless sensor networks: an island-model framework. 2013 , 17, 2257-2277	10
2021	A prediction-based adaptive grouping differential evolution algorithm for constrained numerical optimization. 2013 , 17, 2293-2309	8
2020	Enhancing the food locations in an artificial bee colony algorithm. 2013 , 17, 1939-1965	43
2019	A novel memetic algorithm based on invasive weed optimization and differential evolution for constrained optimization. 2013 , 17, 1893-1910	24
2018	Self-adaptive, multipopulation differential evolution in dynamic environments. 2013, 17, 1861-1881	25
2017	A knowledge-based cooperative differential evolution for neural fuzzy inference systems. 2013 , 17, 883-895	7
2016	Improving artificial bee colony with one-position inheritance mechanism. 2013 , 5, 187-211	20
2015	Adaptive variable space differential evolution algorithm based on population distribution. 2013, 5, 49-64	2
2014	Initialization methods for large scale global optimization. 2013,	27
2013	Exploration and exploitation in evolutionary algorithms. 2013 , 45, 1-33	640
2012	A hierarchical particle swarm optimizer with latin sampling based memetic algorithm for numerical optimization. 2013 , 13, 2823-2836	21

2011	An intelligent technique based on code algorithm for determination of optimum gain values of PID controller in an AGC system. 2013 ,		
2010	Synergizing fitness learning with proximity-based food source selection in artificial bee colony algorithm for numerical optimization. 2013 , 13, 4676-4694		63
2009	Particle swarm optimization based on intermediate disturbance strategy algorithm and its application in multi-threshold image segmentation. 2013 , 250, 82-112		51
2008	. IEEE Transactions on Evolutionary Computation, 2013 , 17, 512-527	15.6	78
2007	Design of mixed H-two/H-infinity optimal control systems using multiobjective differential evolution algorithm. 2013 , 11, 521-528		3
2006	Chemical process dynamic optimization based on hybrid differential evolution algorithm integrated with Alopex. 2013 , 20, 950-959		6
2005	Investigating Multi-View Differential Evolution for solving constrained engineering design problems. 2013 , 40, 3370-3377		53
2004	Shrinking hypersphere based trajectory of particles in PSO. 2013 , 220, 246-267		13
2003	An operational policy for an integrated inventory system under consignment stock policy with controllable lead time and buyersâßpace limitation. 2013 , 40, 2632-2645		28
2002	A hybrid differential evolution augmented Lagrangian method for constrained numerical and engineering optimization. 2013 , 45, 1562-1574		45
2001	Competitive differential evolution applied to CEC 2013 problems. 2013 ,		29
2000	Modeling and Trading FTSE100 Index Using a Novel Sliding Window Approach Which Combines Adaptive Differential Evolution and Support Vector Regression. 2013 , 486-496		3
1999	Differential Evolution. 2013 , 187-214		98
1998	Empirical investigations into the exponential crossover of differential evolutions. 2013 , 9, 27-36		26
1997	Thermodynamic optimization of the operating parameters for a combined power cycle utilizing low-temperature waste heat and LNG cold energy. 2013 , 59, 490-497		55
1996	Multiple documents summarization based on evolutionary optimization algorithm. 2013 , 40, 1675-1689		60
1995	Computational Collective Intelligence. Technologies and Applications. 2013,		2
1994	A CMA-ES super-fit scheme for the re-sampled inheritance search. 2013 ,		20

1993	Intelligent Data Engineering and Automated Learning âllDEAL 2013. 2013 ,	2
1992	Parameter extraction of solar cell models using repaired adaptive differential evolution. 2013 , 94, 209-220	253
1991	An improved multi-objective differential evolution with a termination criterion for optimizing chemical processes. 2013 , 56, 155-173	71
1990	Differential Evolution for Prediction of Longitudinal Dispersion Coefficients in Natural Streams. 2013 , 27, 5245	25
1989	Bi-level thresholding using PSO, Artificial Bee Colony and MRLDE embedded with Otsu method. 2013 , 5, 323-334	43
1988	An Adaptive Differential Evolution Algorithm Based on New Diversity. 2013 , 6, 1094-1107	1
1987	Multiobjective Operation Optimization of Naphtha Pyrolysis Process Using Parallel Differential Evolution. 2013 , 52, 14415-14428	32
1986	Chemical process dynamic optimization based on the differential evolution algorithm with an adaptive scheduling mutation strategy. 2013 , 45, 1205-1221	5
1985	Micro-differential evolution with extra moves along the axes. 2013,	10
1984	Design of TSK-type fuzzy controllers using differential evolution with adaptive mutation strategy for nonlinear system control. 2013 , 219, 8277-8294	12
1983	Accelerating parameter identification of proton exchange membrane fuel cell model with ranking-based differential evolution. 2013 , 59, 356-364	39
1982	A scalability test of Gaussian bare-bones differential evolution on high-dimensional optimization problems. 2013 ,	
1981	Teaching and learning best Differential Evoltuion with self adaptation for real parameter optimization. 2013 ,	15
1980	An effective improvement of JADE for real-parameter optimization. 2013,	4
1979	Group area search: A novel nature-inspired optimization algorithm. 2013,	
1978	A differential evolution algorithm for solving geometric programming problems. 2013,	1
1977	Gaussian Bare-Bones Differential Evolution. 2013 , 43, 634-47	252
1976	Modified Artificial Bee Colony Algorithm using differential evolution and polynomial mutation for real-parameter optimization. 2013 ,	2

Self-adaptive mutation strategy for evolutionary programming based on fitness tracking so 2013 ,	cheme.
Benchmark results for a simple hybrid algorithm on the CEC 2013 benchmark set for real-parameter optimization. 2013 ,	19
1973 Population's variance-based Adaptive Differential Evolution for real parameter optimization	on. 2013 , 17
1972 Noisy source recognition in multi noise plants by differential evolution. 2013 ,	6
Realization of an Adaptive Memetic Algorithm Using Differential Evolution and Q-Learning Study in Multirobot Path Planning. 2013 , 43, 814-831	: A Case 93
1970 Differential evolution on the CEC-2013 single-objective continuous optimization testbed. 2	2013, 21
1969 Synchronizing Differential Evolution with a modified affinity-based mutation framework. 2	013 , 3
1968 Differential Evolution Based Parameters Selection for Support Vector Machine. 2013 ,	2
1967 Self-adapt evolution SVR in a traffic flow forecasting. 2013 ,	
1966 A differential evolution algorithm with intersect mutation operator. 2013 , 13, 390-401	0 a
	80
Dynamic group-based differential evolution using a self-adaptive strategy for global optim problems. 2013 , 39, 41-56	
Dynamic group-based differential evolution using a self-adaptive strategy for global optim	ization 39
Dynamic group-based differential evolution using a self-adaptive strategy for global optim problems. 2013 , 39, 41-56	39 D13 , 9, 15-26 84
Dynamic group-based differential evolution using a self-adaptive strategy for global optim problems. 2013 , 39, 41-56 Feature subset selection using differential evolution and a wheel based search strategy. 20 Designing effective improvement methods for scatter search: an experimental study on global optim problems. 2013 , 39, 41-56	obal 11
Dynamic group-based differential evolution using a self-adaptive strategy for global optim problems. 2013, 39, 41-56 Feature subset selection using differential evolution and a wheel based search strategy. 20 Designing effective improvement methods for scatter search: an experimental study on glooptimization. 2013, 17, 49-62 Practical structure and motion recovery from two uncalibrated images using Constrained A	obal 11 Adaptive 2
Dynamic group-based differential evolution using a self-adaptive strategy for global optime problems. 2013, 39, 41-56 Feature subset selection using differential evolution and a wheel based search strategy. 20 Designing effective improvement methods for scatter search: an experimental study on glooptimization. 2013, 17, 49-62 Practical structure and motion recovery from two uncalibrated images using Constrained A Differential Evolution. 2013, 46, 1466-1484	obal 11 Adaptive 2 -76 88
Dynamic group-based differential evolution using a self-adaptive strategy for global optimization. 2013, 39, 41-56 Designing effective improvement methods for scatter search: an experimental study on glooptimization. 2013, 17, 49-62 Practical structure and motion recovery from two uncalibrated images using Constrained A Differential Evolution. 2013, 46, 1466-1484 Artificial cooperative search algorithm for numerical optimization problems. 2013, 229, 58-2060 Optimization of p-xylene oxidation reaction process based on self-adaptive multi-objective	1013, 9, 15-26 84 11 1 Adaptive 2 18

1957	Parallel memetic structures. 2013 , 227, 60-82	87
1956	Optimal location and sizing of Thyristor Controlled Series Capacitor in radial distribution systems using particle swarm optimization and differential evolution techniques. 2013 ,	2
1955	A Set-Based Discrete Differential Evolution Algorithm. 2013,	3
1954	Adaptive differential evolution with difference mean based perturbation for dynamic economic dispatch problem. 2013 ,	3
1953	Enhancing distributed differential evolution with multicultural migration for global numerical optimization. 2013 , 247, 72-93	54
1952	Leukocyte segmentation in tissue images using differential evolution algorithm. 2013, 11, 46-54	60
1951	Hybridisation of real-code population-based incremental learning and differential evolution for multiobjective design of trusses. 2013 , 223, 136-152	39
1950	Adaptive population tuning scheme for differential evolution. 2013 , 223, 164-191	101
1949	A novel wavelength detection technique of overlapping spectra in the serial WDM FBG sensor network. 2013 , 198, 31-34	17
1948	Accelerated biogeography-based optimization with neighborhood search for optimization. 2013 , 13, 2318-2342	42
1947	Improving differential evolution through a unified approach. 2013 , 55, 771-799	69
1946	Real parameter optimization by an effective differential evolution algorithm. 2013 , 14, 37-53	35
1945	Investigation of PWR core optimization using harmony search algorithms. 2013, 57, 1-15	23
1944	An Improved Self-Adaptive Differential Evolution Algorithm for Optimization Problems. 2013, 9, 89-99	111
1943	Application of a Composite Differential Evolution Algorithm in Optimal Neural Network Design for Propagation Path-Loss Prediction in Mobile Communication Systems. 2013 , 12, 364-367	45
1942	Differential evolution with multi-constraint consensus methods for constrained optimization. 2013 , 57, 583-611	8
1941	Compact Particle Swarm Optimization. 2013 , 239, 96-121	101
1940	A centralised cooperative strategy for continuous optimisation: The influence of cooperation in performance and behaviour. 2013 , 219, 73-92	9

1939	Backtracking Search Optimization Algorithm for numerical optimization problems. 2013 , 219, 8121-8144	614
1938	Two-stage based ensemble optimization framework for large-scale global optimization. 2013 , 228, 308-320	31
1937	Differential Evolution for automatic rule extraction from medical databases. 2013 , 13, 1265-1283	47
1936	Adaptive Memetic Differential Evolution with Global and Local neighborhood-based mutation operators. 2013 , 241, 164-194	80
1935	A novel artificial bee colony algorithm with Powell's method. 2013 , 13, 3763-3775	98
1934	A novel artificial bee colony algorithm based on modified search equation and orthogonal learning. 2013 , 43, 1011-24	283
1933	Diversity-maintained differential evolution embedded with gradient-based local search. 2013 , 17, 1511-1535	15
1932	Adaptive differential evolution algorithm for solving non-linear coordination problem of directional overcurrent relays. 2013 , 7, 329-336	66
1931	Joint Timing and Channel Estimation for Bandlimited Long-Code-Based MC-DS-CDMA: A Low-Complexity Near-Optimal Algorithm and the CRLB. 2013 , 61, 1998-2011	6
1930	A differential invasive weed optimization algorithm for improved global numerical optimization. 2013 , 219, 6645-6668	43
1929	A comparison of methods to avoid overfitting in neural networks training in the case of catchment runoff modelling. 2013 , 476, 97-111	137
1928	Effective and efficient AI-based approaches to cloud resource provisioning. 2013,	
1927	A study on scale factor/crossover interaction in distributed differential evolution. 2013 , 39, 195-224	25
1926	A dual mutation strategy embedded Evolutionary Programming for continuous optimization. 2013,	1
1925	. 2013,	1
1924	On the equivalences and differences of evolutionary algorithms. 2013 , 26, 2397-2407	35
1923	Distributed memetic differential evolution with the synergy of Lamarckian and Baldwinian learning. 2013 , 13, 2947-2959	33
1922	. IEEE Transactions on Evolutionary Computation, 2013 , 17, 545-557	17

1921	Parameter control mechanisms in differential evolution: A tutorial review and taxonomy. 2013,	5
1920	Accelerating Gaussian bare-bones differential evolution using neighbourhood mutation. 2013, 4, 266	11
1919	An improved differential evolution and its application to determining feature weights in similarity based clustering. 2013 ,	0
1918	Image segmentation based on differential immune clone clustering algorithm. 2013 , 6, 83-102	3
1917	Simplified swarm optimization with differential evolution mutation strategy for parameter search. 2013 ,	2
1916	Fitness tracking based evolutionary programming. 2013,	
1915	Asynchronous differential evolution with adaptive correlation matrix. 2013,	17
1914	Which algorithm should i choose at any point of the search. 2013 ,	11
1913	Differential Evolution Algorithm with Self-Adaptive Population Resizing Mechanism. 2013, 2013, 1-14	15
1912	Adaptive Variants of Differential Evolution: Towards Control-Parameter-Free Optimizers. 2013, 423-449	18
1911	Orthogonal Design and Analysis of Variance Based Performance Analysis of Differential Evolution Algorithm. 2013 , 694-697, 2751-2756	
1910	The Hybrid Differential Evolution with Dynamic Scaling Mutation and Wrapper Local Search for Optimization Problems. 2013 , 479-480, 989-995	
1909	Adaptive MOEA/D for QoS-Based Web Service Composition. 2013, 73-84	5
1908	Hybrid Differential Evolutionary Algorithm Based on Extremal Optimization. 2013 , 339, 259-264	2
1907	EA-based parameter tuning of multimodal optimization performance by means of different surrogate models. 2013 ,	2
1906	Harmony Search Based Parameter Ensemble Adaptation for Differential Evolution. 2013, 2013, 1-12	12
1905	Optimizing Vaccine Distribution for Different Age Groups of Population Using DE Algorithm. 2013,	О
1904	Global optimization of a single inlet T- junction cooling system using differential evolution. 2013,	

1903	Single particle algorithms for continuous optimization. 2013,	3
1902	Super-fit Multicriteria Adaptive Differential Evolution. 2013,	28
1901	Differential evolution and differential ant-stigmergy on dynamic optimisation problems. 2013, 44, 663-679	55
1900	Benchmarking capabilities of evolutionary algorithms in joint channel estimation and turbo multi-user detection/decoding. 2013 ,	3
1899	Adaptive Differential Evolution with Competent Leaders. 2013,	
1898	DEMO-TDQL: An adaptive multi-objective optimization algorithm. 2013,	
1897	Combination of differential evolution algorithm and fast fourier transform for synthesis of footprint patterns from rectangular planar array. 2013 , 26, 592-601	3
1896	Dual Mutation Strategies and Dual Crossover Strategies for Differential Evolution. 2013,	
1895	A Novel Two-Layer Hierarchical Differential Evolution Algorithm for Global Optimization. 2013,	1
1894	Differential Evolution with automatic population injection scheme for constrained problems. 2013,	9
1893	Self-adaptive differential evolution algorithm incorporating local search for protein-ligand docking. 2013 , 410, 012030	3
1892	Optimal Design of High-Channel-Count Fiber Bragg Grating Filters With Low Index Modulation Using an Improved Differential Evolution Algorithm. 2013 , 5, 7101211-7101211	4
1891	Investigation of self-adaptive differential evolution on the CEC-2013 real-parameter single-objective optimization testbed. 2013 ,	5
1890	MR&MR-SUM: MAXIMUM RELEVANCE AND MINIMUM REDUNDANCY DOCUMENT SUMMARIZATION MODEL. 2013 , 12, 361-393	2
1889	EVOLVING EXTREME LEARNING MACHINE PARADIGM WITH ADAPTIVE OPERATOR SELECTION AND PARAMETER CONTROL. 2013 , 21, 143-154	9
1888	Adaptive Plan System of Swarm Intelligent using Differential Evolution with Genetic Algorithm. 2013 , 7, 458-473	3
1887	Optimized hyper beamforming of linear antenna arrays using collective animal behaviour. 2013 , 2013, 982017	5
1886	A quasiphysics intelligent model for a long range fast tool servo. 2013 , 2013, 641269	2

1885	Bare-bones teaching-learning-based optimization. 2014 , 2014, 136920	13
1884	Chaos enhanced differential evolution in the task of evolutionary control of selected set of discrete chaotic systems. 2014 , 2014, 836484	3
1883	An investigation of generalized differential evolution metaheuristic for multiobjective optimal crop-mix planning decision. 2014 , 2014, 258749	1
1882	Heterogeneous differential evolution for numerical optimization. 2014 , 2014, 318063	2
1881	Quantum-Inspired Evolutionary Algorithm for Continuous Space Optimization Based on Multiple Chains Encoding Method of Quantum Bits. 2014 , 2014, 1-16	2
1880	Age estimation based on children's voice: a fuzzy-based decision fusion strategy. 2014 , 2014, 534064	7
1879	An adaptive hybrid algorithm based on particle swarm optimization and differential evolution for global optimization. 2014 , 2014, 215472	13
1878	A multistrategy optimization improved artificial bee colony algorithm. 2014 , 2014, 129483	3
1877	Multiobjective Differential Evolution Based on Fuzzy Performance Feedback. 2014 , 5, 45-64	2
1876	Centroid Opposition-Based Differential Evolution. 2014 , 5, 1-25	12
1875	A study on self-configuration in the differential evolution algorithm. 2014,	O
1874	Parallel diffrential evolution clustering algorithm based on MapReduce. 2014,	6
1873	A self-adaptive differential evolution algorithm for continuous optimization problems. 2014 , 19, 201-208	6
1872	Control of numeric and symbolic parameters with a hybrid scheme based on fuzzy logic and hyper-heuristics. 2014 ,	3
1871	Behavioral study of the surrogate model-aware evolutionary search framework. 2014,	14
1870	Gaussian adaptation based parameter adaptation for differential evolution. 2014,	14
1869	A clustering based multiobjective evolutionary algorithm. 2014 ,	12
1868	Enhanced differential evolution with adaptive direction information. 2014,	3

	RDEL: Restart Differential Evolution algorithm with Local Search Mutation for global numerical optimization. 2014 , 15, 175-188	22
1866	Improved differential evolution with adaptive opposition strategy. 2014,	2
	An improved Differential Evolution algorithm using learning automata and population topologies. 2014 , 41, 1150-1169	23
	Permeability estimation using relaxation time spectra derived from differential evolution inversion. 2014 , 11,	5
1863	Rational models to improve performance of differential evolution for MOEA/D. 2014,	2
	A HYBRID OPTIMIZATION METHOD BASED ON DIFFERENTIAL EVOLUTION AND HARMONY SEARCH. 2014 , 13, 1450001	1
1861	Optimization of material supply model in an emergent disaster using differential evolution. 2014,	1
	A spatially informative optic flow model of bee colony with saccadic flight strategy for global optimization. 2014 , 44, 1884-97	27
	A modified differential evolution algorithm based on a new mutation strategy and chaos local search for optimization problems. 2014 ,	4
	Selecting strategies in particle swarm optimization by sampling-based landscape modality detection using inner products. 2014 ,	1
1857	A Global Multilevel Thresholding Using Differential Evolution Approach. 2014 , 2014, 1-23	11
1856	A Brief Introduction to Continuous Evolutionary Optimization. 2014 ,	9
1855	Composite Differential Search Algorithm. 2014 , 2014, 1-15	7
	High-performance Brillouin distributed temperature sensor using Fourier wavelet regularised deconvolution algorithm. 2014 , 8, 203-209	4
	An Improved Differential Evolution Method Based on the Dynamic Search Strategy to Solve Dynamic Economic Dispatch Problem with Valve-Point Effects. 2014 , 2014, 1-15	1
1852	An Improved ZMP-Based CPG Model of Bipedal Robot Walking Searched by SaDE. 2014 , 2014, 1-16	1
1851	Optimal Vaccine Distribution Strategy for Different Age Groups of Population: A Differential Evolution Algorithm Approach. 2014 , 2014, 1-7	6
	A Thermodynamical Selection-Based Discrete Differential Evolution for the 0-1 Knapsack Problem. 2014 , 16, 6263-6285	10

1849 An adaptive Differential Evolution algorithm for sewer networks design. **2014**,

An optimized hybrid dynamic Bayesian network approach using differential evolution algorithm for the diagnosis of Hepatocellular Carcinoma. 2014 ,	4
1847 A Separability Prototype for Automatic Memes with Adaptive Operator Selection. 2014 ,	6
$_{ m 1846}$ Simultaneous optimization of neural network weights and active nodes using metaheuristics. 2014 ,	4
Adaptive differential evolution algorithm and its application to parameter estimation. 2014 ,	
1844 An adaptive differential evolution considering correlation of two algorithm parameters. 2014 ,	4
Optimized artificial neural network using differential evolution for prediction of RF power in VHF/UHF TV and GSM 900 bands for cognitive radio networks. 2014 ,	1
1842 Online model racing based on extreme performance. 2014 ,	4
1841 Differential evolution using mutation strategy with adaptive greediness degree control. 2014 ,	6
1840 ACO for continuous function optimization: A performance analysis. 2014 ,	10
1839 Effect of pseudo gradient on differential evolutionary for global numerical optimization. 2014 ,	
1838 A mutation and crossover adaptation mechanism for differential evolution algorithm. 2014 ,	5
Vehicle license plate recognition based on class-specific ERs and SaE-ELM. 2014 ,	
1836 Real-parameter compact supervision for the Particle Swarm Optimization (RCSPSO). 2014 ,	1
Differential Evolution with adaptive population size. 2014 ,	2
1834 An analysis of the automatic adaptation of the crossover rate in differential evolution. 2014 ,	3
1833 An inter-molecular adaptive collision scheme for Chemical Reaction Optimization. 2014 ,	1
A Differential Evolution with Replacement Strategy for Real-Parameter Numerical Optimization. 2014 ,	12

1831	Multiobjective optimization based on reputation. 2014 , 286, 125-146	10
1830	A cluster-based differential evolution with self-adaptive strategy for multimodal optimization. 2014 , 44, 1314-27	111
1829	Pattern synthesis of time-modulated conformal arrays by an improved differential evolution algorithm. 2014 , 24, 697-705	3
1828	Adaptive Inflationary Differential Evolution. 2014,	6
1827	Alternative coordination approaches for implementation in Smart Grid. 2014,	O
1826	Differential Evolution. 2014 , 89-97	4
1825	Improving the search performance of SHADE using linear population size reduction. 2014,	428
1824	Controlled restart in differential evolution applied to CEC2014 benchmark functions. 2014,	23
1823	. 2014,	23
1822	Macroscopic Indeterminacy Swarm Optimization (MISO) algorithm for real-parameter search. 2014,	2
1822 1821	Macroscopic Indeterminacy Swarm Optimization (MISO) algorithm for real-parameter search. 2014, Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. 2014,	3
1821	Self-adaptive differential evolution with local search chains for real-parameter single-objective	
1821	Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. 2014 ,	
1821 1820	Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. 2014 , A niching two-layered differential evolution with self-adaptive control parameters. 2014 , Sparse representation-based feature extraction combined with support vector machine for	3
1821 1820 1819	Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. 2014, A niching two-layered differential evolution with self-adaptive control parameters. 2014, Sparse representation-based feature extraction combined with support vector machine for sense-through-foliage target detection and recognition. 2014, 8, 458-466	7
1821 1820 1819	Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. 2014, A niching two-layered differential evolution with self-adaptive control parameters. 2014, Sparse representation-based feature extraction combined with support vector machine for sense-through-foliage target detection and recognition. 2014, 8, 458-466 Optimized hyper beamforming of receiving linear antenna arrays using Firefly algorithm. 2014, 6, 181-194 DE-FPA: A hybrid differential evolution-flower pollination algorithm for function minimization.	7
1821 1820 1819 1818	Self-adaptive differential evolution with local search chains for real-parameter single-objective optimization. 2014, A niching two-layered differential evolution with self-adaptive control parameters. 2014, Sparse representation-based feature extraction combined with support vector machine for sense-through-foliage target detection and recognition. 2014, 8, 458-466 Optimized hyper beamforming of receiving linear antenna arrays using Firefly algorithm. 2014, 6, 181-194 DE-FPA: A hybrid differential evolution-flower pollination algorithm for function minimization. 2014, Differential Evolution With Dynamic Parameters Selection for Optimization Problems. IEEE	3 7 16 23

1813	Composite Differential Evolution with Modified Oracle Penalty Method for Constrained Optimization Problems. 2014 , 2014, 1-15	11
1812	Optimized Neural Network using differential evolutionary and swarm intelligence optimization algorithms for RF power prediction in cognitive radio network: A comparative study. 2014 ,	1
1811	ADEMO/D: Multiobjective optimization by an adaptive differential evolution algorithm. 2014, 127, 65-77	60
1810	An adaptive invasion-based model for distributed Differential Evolution. 2014 , 278, 653-672	21
1809	System modeling and optimization for islanded micro-grid using multi-cross learning-based chaotic differential evolution algorithm. 2014 , 56, 349-360	50
1808	Multi-strategy ensemble artificial bee colony algorithm. 2014 , 279, 587-603	175
1807	An analysis on separability for Memetic Computing automatic design. 2014 , 265, 1-22	76
1806	An ensemble algorithm with self-adaptive learning techniques for high-dimensional numerical optimization. 2014 , 231, 329-346	15
1805	An improved TLBO with elite strategy for parameters identification of PEM fuel cell and solar cell models. 2014 , 39, 3837-3854	166
1804	Automatic generation control with thyristor controlled series compensator including superconducting magnetic energy storage units. 2014 , 5, 759-774	54
1803	DE-VNS: Self-adaptive Differential Evolution with crossover neighborhood search for continuous global optimization. 2014 , 52, 157-169	34
1802	A multi-swarm cooperative multistage perturbation guiding particle swarm optimizer. 2014 , 22, 77-93	31
1801	How Nature Works. 2014,	3
1800	An optimized watermarking technique based on self-adaptive DE in DWTâBVD transform domain. 2014 , 94, 545-556	110
1799	Parameter optimization of PEMFC model with improved multi-strategy adaptive differential evolution. 2014 , 27, 28-40	47
1798	A differential evolution algorithm with cooperative coevolutionary selection operation for high-dimensional optimization. 2014 , 8, 477-492	13
1797	Optimization of magneto-electro-elastic composite structures using differential evolution. 2014 , 107, 276-287	19
1796	Compensatory neural fuzzy networks with rule-based cooperative differential evolution for nonlinear system control. 2014 , 75, 355-366	2

1795	Enhancing differential evolution with role assignment scheme. 2014 , 18, 2209-2225	20
1794	Differential evolution based on covariance matrix learning and bimodal distribution parameter setting. 2014 , 18, 232-247	199
1793	Repairing the crossover rate in adaptive differential evolution. 2014 , 15, 149-168	79
1792	Adaptive Operator Selection With Bandits for a Multiobjective Evolutionary Algorithm Based on Decomposition. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 114-130	236
1791	A novel class of niche hybrid Cultural Algorithms for continuous engineering optimization. 2014 , 267, 158-190	24
1790	A survey on nature inspired metaheuristic algorithms for partitional clustering. 2014 , 16, 1-18	330
1789	An improved firefly algorithm for solving dynamic multidimensional knapsack problems. 2014 , 41, 3712-3725	90
1788	Comparing large number of metaheuristics for artificial neural networks training to predict water temperature in a natural river. 2014 , 64, 136-151	30
1787	Chaotic Evolution: fusion of chaotic ergodicity and evolutionary iteration for optimization. 2014 , 13, 79-96	19
1786	A Hybrid Differential Evolution for Optimum Modeling of PEM Fuel Cells. 2014 , 39, 2869-2885	4
1785	A naive Bayes probability estimation model based on self-adaptive differential evolution. 2014 , 42, 671-694	28
1784	Teachingâlearning-based optimization with dynamic group strategy for global optimization. 2014 , 273, 112-131	90
1783	Performance of Chaos Driven Differential Evolution on Shifted Benchmark Functions Set. 2014 , 41-50	8
1782	. 2014 , 63, 1204-1222	40
1781	Modified teaching learning algorithm and double differential evolution algorithm for optimal reactive power dispatch problem: A comparative study. 2014 , 278, 231-249	93
1780	A multi-objective optimization model for the life-cycle cost analysis and retrofitting planning of buildings. 2014 , 77, 227-235	117
1779	Differential Evolution algorithms applied to Neural Network training suffer from stagnation. 2014 , 21, 382-406	67
1778	Modified Differential Evolution algorithm for multi-objective VAR management. 2014 , 55, 731-740	37

1777	Reliability analysis of geostructures based on metaheuristic optimization. 2014 , 22, 544-565	14
1776	An analysis of the migration rates for biogeography-based optimization. 2014 , 254, 111-140	45
1775	Enhancing the performance of biogeography-based optimization using polyphyletic migration operator and orthogonal learning. 2014 , 41, 125-139	48
1774	Finite Markov chain analysis of classical differential evolution algorithm. 2014 , 268, 121-134	19
1773	Enhanced particle swarm optimizer incorporating a weighted particle. 2014 , 124, 218-227	28
1772	Cuckoo Search and Firefly Algorithm. 2014 ,	69
1771	A Self-Adaptive Differential Evolution Algorithm for Parameters Identification of Stochastic Genetic Regulatory Networks with Random Delays. 2014 , 39, 821-835	5
1770	Combination of fast Fourier transform and self-adaptive differential evolution algorithm for synthesis of phase-only reconfigurable rectangular array antenna. 2014 , 69, 515-527	5
1769	Modified Teachingâllearning-Based Optimization algorithm for global numerical optimizationâl comparative study. 2014 , 16, 28-37	92
1768	Optimization of Advertising Budget Allocation Over Time Based on LS-SVMR and DE. 2014 , 11, 1076-1082	4
1767	Particle swarm optimization with increasing topology connectivity. 2014 , 27, 80-102	65
1766	A Fast Global Group Search Optimizer algorithm. 2014 ,	1
1765	A hybrid differential evolution algorithm with invasive weed optimization and its application to modeling of carbon content. 2014 ,	
1764	A surrogate-assisted differential evolution algorithm with dynamic parameters selection for solving expensive optimization problems. 2014 ,	14
1763	Multi-objective design of an organ transplant network under uncertainty. 2014 , 72, 101-124	61
1762	Differential evolution with rotation-invariant mutation and competing-strategies adaptation. 2014,	12
1761	Differential Evolution strategy based on the constraint of fitness values classification. 2014,	7
1760	Fuzzy multiobjective differential evolution using performance metrics feedback. 2014 ,	2

1759	Hybrid particle swarm optimization for parameter estimation of Muskingum model. 2014 , 25, 1785-1799	44
1758	Improved differential evolution algorithm and its application in complex function optimization. 2014 ,	O
1757	Energy management at municipal parking deck for charging of Plug-in hybrid electric vehicles. 2014 ,	2
1756	Operation Optimization in the Hot-Rolling Production Process. 2014 , 53, 11393-11410	19
1755	Multi-strategy coevolving aging particle optimization. 2014 , 24, 1450008	54
1754	Primary study on feedback controlled differential evolution. 2014,	
1753	Differential evolution enhanced with multiobjective sorting-based mutation operators. 2014 , 44, 2792-805	97
1752	A study on residence error of training an extreme learning machine and its application to evolutionary algorithms. 2014 , 146, 75-82	14
1751	Intelligent Computing in Bioinformatics. 2014,	3
1750	Differential evolution and underwater glider path planning applied to the short-term opportunistic sampling of dynamic mesoscale ocean structures. 2014 , 24, 95-108	42
1749	A new self-adaptation scheme for differential evolution. 2014 , 146, 2-16	37
1748	Parallel Self-Adaptive Differential Evolution Algorithm for Solving Short-Term Hydro Scheduling Problem. 2014 , 29, 2347-2358	29
1747	Combining Crowding Estimation in Objective and Decision Space With Multiple Selection and Search Strategies for Multi-Objective Evolutionary Optimization. 2014 , 44, 378-93	32
1746	Particle swarm optimization with adaptive time-varying topology connectivity. 2014 , 24, 623-642	34
1745	Optimal operation of trunk natural gas pipelines via an inertia-adaptive particle swarm optimization algorithm. 2014 , 21, 10-18	33
1744	A Novel Self-adaptive Differential Evolution Algorithm with Population Size Adjustment Scheme. 2014 , 39, 6149-6174	10
1743	Analyzing convergence performance of evolutionary algorithms: A statistical approach. 2014 , 289, 41-58	86
1742	A hybridization of teachingâlearning-based optimization and differential evolution for chaotic time series prediction. 2014 , 25, 1407-1422	50

1741	An improved differential evolution and its application to determining feature weights in similarity-based clustering. 2014 , 146, 95-103	19
1740	History matching with iterative Latin hypercube samplings and parameterization of reservoir heterogeneity. 2014 , 114, 61-73	16
1739	Nonlinear inversion for electrical resistivity tomography based on chaotic DE-BP algorithm. 2014 , 21, 2018-2025	9
1738	Engineering optimization by means of an improved constrained differential evolution. 2014 , 268, 884-904	72
1737	Dynamic partition search algorithm for global numerical optimization. 2014 , 41, 1108-1126	3
1736	Self-adaptive particle swarm optimization with multiple velocity strategies and its application for p-Xylene oxidation reaction process optimization. 2014 , 139, 15-25	10
1735	United multi-operator evolutionary algorithms. 2014,	5
1734	Cooperative optimization for efficient financial time series forecasting. 2014,	2
1733	Differential evolution with a constraint consensus mutation for solving optimization problems. 2014 ,	1
1732	Adaptive Backtracking Search Algorithm for Induction Magnetometer Optimization. 2014 , 50, 1-6	40
1731	An adaptive single-point algorithm for global numerical optimization. 2014 , 41, 877-885	6
1730	Enhancing artificial bee colony algorithm using more information-based search equations. 2014 , 270, 112-133	119
1729	Vectorized procedural models for animated trees reconstruction using differential evolution. 2014 , 278, 1-21	24
1728	Parameter identification of an SOFC model with an efficient, adaptive differential evolution algorithm. 2014 , 39, 5083-5096	39
1727	An adaptive hybrid differential evolution algorithm for single objective optimization. 2014 , 231, 601-618	34
1726	Fuzzy logic-controlled diversity-based multi-objective memetic algorithm applied to a frequency assignment problem. 2014 , 30, 199-212	9
1725	Self-adaptive mix of particle swarm methodologies for constrained optimization. 2014 , 277, 216-233	40
1724	An efficient co-swarm particle swarm optimization for non-linear constrained optimization. 2014 , 5, 258-268	28

1723 An evolutionary membrane algorithm for global numerical optimization problems. 2014 , 276, 219-	241 30
Differential-Evolution algorithm based optimization for the site selection of groundwater production wells with the consideration of the vulnerability concept. 2014 , 511, 736-749	28
1721 Differential evolution with two-level parameter adaptation. 2014 , 44, 1080-99	188
1720 Parameter fitting of PEMFC models based on adaptive differential evolution. 2014 , 62, 189-198	35
A self-adaptive combined strategies algorithm for constrained optimization using differential evolution. 2014 , 241, 267-282	44
Improved range selection method for evolutionary algorithm based adaptive filtering of EEG/ERP signals. 2014 , 144, 282-294	7
Adaptive multiple evolutionary algorithms search for multi-objective optimal reactive power dispatch. 2014 , 24, 780-795	13
An improved teachingâlearning-based optimization with neighborhood search for applications of ANN. 2014 , 143, 231-247	50
hABCDE: A hybrid evolutionary algorithm based on artificial bee colony algorithm and differential evolution. 2014 , 238, 370-386	36
1714 A hybrid harmony search with arithmetic crossover operation for economic dispatch. 2014 , 62, 237	'-257 ₅₁
Short-term scheduling of thermal power systems using hybrid gradient based modified teachingâlearning optimizer with black hole algorithm. 2014 , 108, 16-34	42
150 km long distributed temperature sensor using phase modulated probe wave and optimization technique. 2014 , 125, 441-445	2
1711 Self Balanced Differential Evolution. 2014 , 5, 312-323	22
1710 Enhancing the search ability of differential evolution through competent leader. 2014 , 5, 50	1
1709 Materialised view selection using differential evolution. 2014 , 6, 102	30
1708 Real-time magnetic dipole detection with single particle optimization. 2014 , 23, 460-473	10
1707 Image segmentation using an improved differential algorithm. 2014 ,	
1706 From the social learning theory to a social learning algorithm for global optimization. 2014 ,	6

1705 Some Improvements of the Self-Adaptive jDE Algorithm. 2014 ,	11
1704 A Cultivated Differential Evolution Variant for Molecular Potential Energy Problem. 2015 , 57, 1265-127	' 2 5
Optimal relay coordination suitable for grid-connected and islanded operational modes of microgrid. 2015 ,	7
1702 Heuristic optimization techniques for the design of band stop digital FIR filter: A comparison. 2015 ,	
1701 On the parameter settings for the chaotic dynamics embedded differential evolution. 2015 ,	10
1700 Performance assessment of evolutionary algorithms in power system optimization problems. 2015 ,	1
1699 HEPWM using differential evolution technique for three phase voltage source inverter. 2015 ,	O
Multi-level image segmentation based on an improved differential evolution with adaptive parameter controlling strategy. 2015 ,	1
Ensemble of different improvements in differential evolution for parameter extraction of PEMFC model. 2015 , 51, 193	1
A repeated imitation model with dependence between stages: Decision strategies and rewards. 2015 , 25, 617-630	
A self-adaptive differential evolution algorithm with an external archive for unconstrained optimization problems. 2015 , 29, 2193-2204	0
A hybrid optimization algorithm based on harmony search and differential evolution for continuous domain. 2015 , 29, 2169-2176	1
Robust Differential Evolution for solving Numerical Optimization Problems. 2015 ,	
1692 DNA sequence based data classification technique. 2015 , 3, 59-69	1
1691 Identification of disease-critical genes causing preeclampsia: Meta-heuristic approaches. 2015 ,	4
A comparative analysis of the performance of a grid connected permanent magnet synchronous generator with PI and DE optimized PI controller. 2015 ,	1
1689 Concept of feedback-controlled differential evolution and its realization. 2015 , 10, 423-437	2
1688 Improving an adaptive differential evolution using hill-valley detection. 2015 ,	1

1687	Surrogate assisted-hybrid differential evolution algorithm using diversity control. 2015 , 32, 531-545	3
1686	A comprehensive review of swarm optimization algorithms. 2015 , 10, e0122827	222
1685	Differential Evolution with Population and Strategy Parameter Adaptation. 2015, 2015, 1-10	12
1684	A Universal Concept for Robust Solving of Shortest Path Problems in Dynamically Reconfigurable Graphs. 2015 , 2015, 1-23	3
1683	A Novel Tournament Selection Based Differential Evolution Variant for Continuous Optimization Problems. 2015 , 2015, 1-21	4
1682	An Improved Brain Storm Optimization with Differential Evolution Strategy for Applications of ANNs. 2015 , 2015, 1-18	29
1681	Optimal Control Problem of Converter Steelmaking Production Process Based on Operation Optimization Method. 2015 , 2015, 1-13	3
1680	Spacecraft Multiple-Impulse Trajectory Optimization Using Differential Evolution Algorithm with Combined Mutation Strategies and Boundary-Handling Schemes. 2015 , 2015, 1-13	6
1679	Optimizing Construction Project Labor Utilization Using Differential Evolution: A Comparative Study of Mutation Strategies. 2015 , 2015, 1-8	5
1678	The Cellular Differential Evolution Based on Chaotic Local Search. 2015 , 2015, 1-15	3
1677	A Novel Artificial Bee Colony Algorithm for Function Optimization. 2015 , 2015, 1-10	9
1676	A double herd krill based algorithm for location area optimization in mobile wireless cellular network. 2015 , 2015, 475806	2
1675	An Improved Teaching-Learning-Based Optimization with Differential Learning and Its Application. 2015 , 2015, 1-19	7
1674	An Enhanced Differential Evolution Algorithm Based on Multiple Mutation Strategies. 2015 , 2015, 285730	15
1673	An Enhanced Differential Evolution with Elite Chaotic Local Search. 2015 , 2015, 583759	12
1672	A DE-Based Scatter Search for Global Optimization Problems. 2015 , 2015, 1-9	3
1671	Cloud Particles Differential Evolution Algorithm: A Novel Optimization Method for Global Numerical Optimization. 2015 , 2015, 1-36	2
1670	Parameter extraction of different fuel cell models with transferred adaptive differential evolution. 2015 , 86, 139-151	45

1669	Differential evolution algorithm for simple assembly line balancing type 1 (SALBP-1). 2015 , 32, 104-114	26
1668	Optimal PID plus fuzzy controller design for a PEM fuel cell air feed system using the self-adaptive differential evolution algorithm. 2015 , 40, 9422-9434	71
1667	Differential evolution with hybrid linkage crossover. 2015 , 320, 244-287	46
1666	Ensemble of Constraint Handling Techniques for Single Objective Constrained Optimization. 2015 , 231-248	3
1665	Enhanced differential evolution using random-based sampling and neighborhood mutation. 2015 , 19, 2173-2192	11
1664	A directional mutation operator for differential evolution algorithms. 2015 , 30, 529-548	33
1663	On the performances of the flower pollination algorithm âlQualitative and quantitative analyses. 2015 , 34, 349-371	92
1662	Optimal power flow based TU/CHP/PV/WPP coordination in view of wind speed, solar irradiance and load correlations. 2015 , 96, 131-145	24
1661	MOEA/D-HH: A Hyper-Heuristic for Multi-objective Problems. 2015 , 94-108	10
1660	Multi-population differential evolution with balanced ensemble of mutation strategies for large-scale global optimization. 2015 , 33, 304-327	99
1659	Evolutionary Prisoner's Dilemma in updating fuzzy linguistic model to damp power system oscillations. 2015 , 9, 445-456	3
1658	Adaptive differential evolution: A visual comparison. 2015,	5
1657	Continuous Parameter Pools in Ensemble Differential Evolution. 2015,	5
1656	. 2015,	2
1655	Cluster-based differential evolution with heterogeneous influence for numerical optimization. 2015 ,	4
1654	Teaching-Learning-Based Differential Evolution Algorithm for Optimization Problems. 2015,	1
1653	Dissipative differential evolution with self-adaptive control parameters. 2015,	
1652	Identification of Mass Characteristic Parameters for Spacecraft Based on Differential Evolution Algorithm. 2015 ,	1

Differential Evolution with Equally-Mixed Strategies for Robust Control of Open Quantum System 2015,	ems.
Enhanced differential evolution with generalised opposition-based learning and orientation neighbourhood mining. 2015 , 6, 49	9
1649 Cooperation of optimization algorithms: A simple hierarchical model. 2015 ,	8
$_{1648}$ An improved differential evolution for parameter optimisation. 2015 , 8, 394	6
1647 Optimal trajectory searching based differential evolution. 2015 , 8, 384	4
1646 Dual of DE: a new scheme of differential evolution algorithm. 2015 , 8, 406	1
Evolutionary algorithm for analyzing higher degree research student recruitment and completic 2015 , 2, 1063760	on.
1644 Targeted Mutation: A Novel Mutation Strategy for Differential Evolution. 2015 ,	4
Adaptive Differential Evolution Algorithm Based on Gradient and Polar Coordinates Search Strategies. 2015 ,	2
DECO3R: Differential evolution based COoperative-COmpeting learning of COmpact fuzzy Rulebased classification systems. 2015 ,	
1641 An opposition-based hybrid Artificial Bee Colony with differential evolution. 2015 ,	3
1640 Effectiveness of approximation strategy in surrogate-assisted fireworks algorithm. 2015 , 6, 795	-810 6
In silico discovery of significant pathways in colorectal cancer metastasis using a two-stage optimisation approach. 2015 , 9, 294-302	6
Diversity Controlled Self Adaptive Differential Evolution based design of non-fragile multivarial PI controller. 2015 , 46, 209-222	ble 12
Optimal placement of static compensators for multi-objective voltage stability enhancement of power systems. 2015 , 9, 2144-2151	28
1636 Ensemble control of open quantum systems using differential evolution. 2015 ,	1
1635 Local ensemble surrogate assisted crowding differential evolution. 2015 ,	2
1634 Implementation of hybrid differential evolution to solve unit commitment. 2015 ,	

1633	An improved differential evolution for batching problem in steelmaking production. 2015,		2
1632	An Ensemble Differential Evolution for Numerical Optimization. 2015 , 14, 915-942		5
1631	Sequential Learnable Evolutionary Algorithm: A Research Program. 2015,		3
1630	LADE: Learning Automata Based Differential Evolution. 2015 , 24, 1550023		23
1629	Differential evolution with dynamic niche radius strategy for multimodal optimization. 2015,		4
1628	. 2015,		7
1627	Sub-band adaptive filtering method for electroencephalography/event related potential signal using nature inspired optimisation techniques. 2015 , 9, 987-997		5
1626	Differential evolution with adaptive repository of strategies and parameter control schemes. 2015 ,		
1625	On the control of planar cable-driven parallel robot via classic controllers and tuning with intelligent algorithms. 2015 ,		3
1624	Iterative hybridization of DE with local search for the CEC'2015 special session on large scale global optimization. 2015 ,		20
1623	A multi-population firefly algorithm for dynamic optimization problems. 2015,		11
1622	Observation-driven adaptive differential evolution and its application to accurate and smooth bronchoscope three-dimensional motion tracking. 2015 , 24, 282-296		11
1621	A Population Adaptation Mechanism for Differential Evolution Algorithm. 2015,		7
1620	Enhancing local search of differential evolution algorithm for high dimensional optimization problem. 2015 ,		
1619	Optimization of Catalytic Naphtha Reforming Process Based on Modified Differential Evolution Algorithm. 2015 , 48, 373-378		5
1618	A new multi-population-based differential evolution. 2015 , 6, 88		3
1617	Improving Differential Evolution With a Successful-Parent-Selecting Framework. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 717-730	15.6	114
1616	An ideal tri-population approach for unconstrained optimization and applications. 2015 , 256, 666-701		13

1615	An Improved Self-Adaptive Constraint Sequencing approach for constrained optimization problems. 2015 , 253, 23-39	7
1614	Optimization of high-channel-count fiber Bragg grating filters design with low dispersion. 2015 , 17, 025707	1
1613	A fuzzy logic controller applied to a diversity-based multi-objective evolutionary algorithm for single-objective optimisation. 2015 , 19, 2927-2945	5
1612	Using binary particle swarm optimization to search for maximal successful coalition. 2015 , 42, 195-209	10
1611	A social spider algorithm for global optimization. 2015 , 30, 614-627	213
1610	Heterozygous differential evolution with Taguchi local search. 2015 , 19, 3273-3291	23
1609	Adaptation and Hybridization in Computational Intelligence. 2015,	4
1608	Performance Analysis of Multistage Interference Cancellation in THUWB Systems Using Adaptive Differential Evolution Algorithm with Novel Mutation and Crossover Strategies. 2015 , 82, 1179-1199	2
1607	Optimization of Ultra Wide-Band Printed Monopole Square Antenna Using Differential Evolution Algorithm. 2015 , 81-89	1
1606	Quality assessment of modeled protein structure using physicochemical properties. 2015 , 13, 1550005	14
1605	Adaptation in the Differential Evolution. 2015 , 53-68	3
1604	Optimal pinning controllability of complex networks: dependence on network structure. 2015 , 91, 012803	34
1603	Workspace-constrained optimal design of three-degrees-of-freedom parallel manipulators with minimum parasitic motions by integrating interval analysis, region mapping and differential evolution. 2015 , 47, 407-428	1
1602	Enhancing Differential Evolution Utilizing Eigenvector-Based Crossover Operator. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 31-49	148
1601	Adaptive Differential Evolution by Adjusting Subcomponent Crossover Rate for High-Dimensional Waveform Inversion. 2015 , 12, 1327-1331	19
1600	Differential evolution with distributed direction information based mutation operators: an optimization technique for big data. 2015 , 6, 481-494	8
1599	Size character optimization for measurement system with binocular vision and optical elements based on local particle swarm method. 2015 , 22, 58-64	4
1598	A new differential evolution algorithm with a hybrid mutation operator and self-adapting control parameters for global optimization problems. 2015 , 42, 642-660	48

1597	Adaptive differential evolution with directional strategy and cloud model. 2015 , 42, 369-388		5
1596	Seed Disperser Ant Algorithm: An Evolutionary Approach for Optimization. 2015 , 643-654		3
1595	An Estimation of Distribution Algorithm With Cheap and Expensive Local Search Methods. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 807-822	15.6	48
1594	Fruit fly optimization algorithm based on differential evolution and its application on gasification process operation optimization. 2015 , 88, 253-263		64
1593	An unsupervised approach to generating generic summaries of documents. 2015 , 34, 236-250		26
1592	Dichotomy Guided Based Parameter Adaptation for Differential Evolution. 2015,		4
1591	Cooperative differential evolution with fast variable interdependence learning and cross-cluster mutation. 2015 , 36, 300-314		15
1590	Cooperation of Evolutionary Algorithms: A Comparison of Several Hierarchical Models. 2015 , 89-101		
1589	A Hybrid Neuro-Fuzzy Network Based on Differential Biogeography-Based Optimization for Online Population Classification in Earthquakes. 2015 , 23, 1070-1083		57
1588	. IEEE Transactions on Evolutionary Computation, 2015 , 19, 746-758	15.6	84
1588 1587	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 746-758 Hybrid differential evolution algorithm for optimal clustering. 2015 , 35, 502-512	15.6	28
1587		15.6	<u>'</u>
1587	Hybrid differential evolution algorithm for optimal clustering. 2015 , 35, 502-512	15.6	28
1587 1586	Hybrid differential evolution algorithm for optimal clustering. 2015 , 35, 502-512 An evolving surrogate model-based differential evolution algorithm. 2015 , 34, 770-787	15.6	28 46
1587 1586 1585	Hybrid differential evolution algorithm for optimal clustering. 2015, 35, 502-512 An evolving surrogate model-based differential evolution algorithm. 2015, 34, 770-787 Multicriteria adaptive differential evolution for global numerical optimization. 2015, 22, 103-107	15.6	28 46 44
1587 1586 1585	Hybrid differential evolution algorithm for optimal clustering. 2015, 35, 502-512 An evolving surrogate model-based differential evolution algorithm. 2015, 34, 770-787 Multicriteria adaptive differential evolution for global numerical optimization. 2015, 22, 103-107 Computational Intelligence in Digital and Network Designs and Applications. 2015,	15.6	28 46 44
1587 1586 1585 1584	Hybrid differential evolution algorithm for optimal clustering. 2015, 35, 502-512 An evolving surrogate model-based differential evolution algorithm. 2015, 34, 770-787 Multicriteria adaptive differential evolution for global numerical optimization. 2015, 22, 103-107 Computational Intelligence in Digital and Network Designs and Applications. 2015, An experimental study of adaptive control for evolutionary algorithms. 2015, 35, 359-372 An Improved Artificial Bee Colony Algorithm and Its Application to Multi-Objective Optimal Power	15.6	28 46 44 2

1579	A novel mutation differential evolution for global optimization. 2015 , 28, 1047-1060	15
1578	Bare bones artificial bee colony algorithm with parameter adaptation and fitness-based neighborhood. 2015 , 316, 180-200	64
1577	Composite artificial bee colony algorithms: From component-based analysis to high-performing algorithms. 2015 , 32, 266-285	20
1576	Structural bias in population-based algorithms. 2015 , 298, 468-490	48
1575	An improved differential evolution algorithm with triangular mutation for global numerical optimization. 2015 , 85, 359-375	79
1574	Hybrid particle swarm optimization incorporating fuzzy reasoning and weighted particle. 2015 , 167, 488-501	16
1573	Multi-Input Single Output SSSC based damping controller design by a hybrid Improved Differential Evolution-Pattern Search approach. 2015 , 58, 173-85	15
1572	An adaptive evolutionary algorithm for optimizing process planning of parallel drilling operations. 2015 , 79, 1247-1263	3
1571	Modeling and parameters identification of 2-keto-L-gulonic acid fed-batch fermentation. 2015 , 38, 605-14	2
1570	NestDE: generic parameters tuning for automatic story segmentation. 2015 , 19, 61-70	1
1569	Precise Determination of Thicknesses of Multilayer Polyethylene Composite Materials by Terahertz Time-Domain Spectroscopy. 2015 , 36, 578-596	24
1568	On Optimal Threshold Selection in Cooperative Spectrum Sensing for Cognitive Radio Networks: An Energy Detection Approach Using Fuzzy Entropy Maximization. 2015 , 84, 1605-1625	7
1567	A PD-type Multi Input Single Output SSSC damping controller design employing hybrid improved differential evolution-pattern search approach. 2015 , 32, 532-543	14
1566	A novel hybrid multi-objective immune algorithm with adaptive differential evolution. 2015 , 62, 95-111	84
1565	The gradient evolution algorithm: A new metaheuristic. 2015 , 316, 246-265	43
1564	Evolutionary Multi-Criterion Optimization. 2015 ,	2
1563	On composing an algorithm portfolio. 2015 , 7, 203-214	27
1562	A Walk into Metaheuristics for Engineering Optimization: Principles, Methods and Recent Trends. 2015 , 8, 606-636	50

(2015-2015)

1561	Artificial bee colony based algorithm for maximum power point tracking (MPPT) for PV systems operating under partial shaded conditions. 2015 , 32, 38-48	184
1560	Implementation of Directional Over-current Relay Coordination Approaches in Electrical Networks. 2015 , 43, 2131-2145	4
1559	Effective parameter tuning for genetic algorithm to solve a real world transportation problem. 2015 ,	4
1558	Adaptive chemical reaction optimization for global numerical optimization. 2015,	3
1557	Evaluating the performance of a differential evolution algorithm in anomaly detection. 2015,	8
1556	An improved strategy based on center of solutions for differential evolution algorithm. 2015,	2
1555	Self-adaptive control parameters? randomization frequency and propagations in differential evolution. 2015 , 25, 72-99	85
1554	Enhancing power transfer capability through flexible AC transmission system devices: a review. 2015 , 16, 658-678	35
1553	A New Framework for Self-adapting Control Parameters in Multi-objective Optimization. 2015,	1
1552	Traditional and self-adaptive differential evolution for the p-median problem. 2015,	5
1551	ITGO: Invasive tumor growth optimization algorithm. 2015 , 36, 670-698	30
1550	Injection, Saturation and Feedback in Meta-Heuristic Interactions. 2015,	2
1549	Composite differential evolution with queueing selection for multimodal optimization. 2015,	4
1548	A differential evolution algorithm with constraint sequencing: An efficient approach for problems with inequality constraints. 2015 , 36, 101-113	10
1547	An adaptive configuration of differential evolution algorithms for big data. 2015,	
1546	A differential evolution algorithm with variable neighborhood search for multidimensional knapsack problem. 2015 ,	8
1545	A cloud model based fruit fly optimization algorithm. 2015 , 89, 603-617	59
1544	Artificial bee colony algorithm with multiple search strategies. 2015 , 271, 269-287	47

Digital IIR Filter Design with Fix-Point Representation Using Effective Evolutionary Local Search 1543 Enhanced Differential Evolution. 2015, 131-157 Digital image watermarking using partial pivoting lower and upper triangular decomposition into 45 the wavelet domain. 2015, 9, 795-803 1541 Artificial Bee Colony Algorithm Based on Information Learning. 2015, 45, 2827-39 94 An Artificial Bee Colony algorithm with guide of global & local optima and asynchronous scaling 1540 34 factors for numerical optimization. 2015, 37, 608-618 Hybrid power system state estimation using Taguchi differential evolution algorithm. 2015, 9, 449-466 12 Development of Bat Algorithm toolkit in LabVIEWâ[12015, 2 A Multiobjective Sparse Feature Learning Model for Deep Neural Networks. 2015, 26, 3263-77 130 Teachingâlearning-based optimization with learning experience of other learners and its 1536 66 application. 2015, 37, 725-736 A harmony search algorithm for high-dimensional multimodal optimization problems. 2015, 46, 151-163 2.2 Spectrum parameter estimation in Brillouin scattering distributed temperature sensor based on 1534 cuckoo search algorithm combined with the improved differential evolution algorithm. 2015, 357, 15-20 Development of a Grey Wolf Optimizer Toolkit in LabVIEWâ[]2015, 1533 3 An adaptive artificial bee colony algorithm for global optimization. 2015, 271, 1004-1023 30 Artificial algae algorithm with multi-light source for numerical optimization and applications. 2015, 1531 21 138, 25-38 An improved free search differential evolution algorithm: A case study on parameters identification 56 of one diode equivalent circuit of a solar cell module. 2015, 93, 1515-1522 Resource allocation between initialization and optimization under computational expensive 1529 \circ environment. 2015, Differential evolutionary algorithms with novel mutation operator for solving the permutation 1528 flowshop scheduling problem. 2015, Performance evaluation of automatically tuned continuous optimizers on different benchmark 1527 34 sets. 2015, 27, 490-503 A fast fault location method based on detecting the minimum number of phasor measurement 1526 7 units using a novel adaptive binary differential evolution optimization algorithm. 2015, 25, 2933-2947

1525	Cluster-Based Population Initialization for differential evolution frameworks. 2015 , 297, 216-235	66
1524	Regarding the rankings of optimization heuristics based on artificially-constructed benchmark functions. 2015 , 297, 191-201	30
1523	Optimal VAR control for real power loss minimization using differential evolution algorithm. 2015 , 66, 262-271	17
1522	Genetic algorithm with ensemble of immigrant strategies for multicast routing in Ad hoc networks. 2015 , 19, 489-498	19
1521	Hybrid learning clonal selection algorithm. 2015 , 296, 128-146	20
1520	Differential evolution combined with clonal selection for dynamic economic dispatch. 2015 , 27, 325-350	6
1519	Differential Evolution with an Evolution Path: A DEEP Evolutionary Algorithm. 2015 , 45, 1798-810	104
1518	Protein structure prediction using diversity controlled self-adaptive differential evolution with local search. 2015 , 19, 1635-1646	16
1517	Particle swarm optimization with dual-level task allocation. 2015 , 38, 88-110	27
1516	Fractional snow cover estimation in complex alpine-forested environments using an artificial neural network. 2015 , 156, 403-417	53
1515	RETRACTED ARTICLE: Improved cuckoo search algorithm using dimensional entropy gain. 2015 , 26, 745-74	l5 ₂
1514	Differential evolution algorithm with self-adaptive strategy and control parameters for P-xylene oxidation process optimization. 2015 , 19, 1363-1391	22
1513	Constraint-activated differential evolution for constrained minâthax optimization problems: Theory and methodology. 2015 , 42, 1626-1636	4
1512	Pathway identification using parallel optimization for a nonlinear hybrid system in batch culture. 2015 , 15, 112-131	8
1511	Improved differential evolution algorithm for nonlinear programming and engineering design problems. 2015 , 148, 628-640	18
1510	Improved group search optimization method for optimal power flow problem considering valve-point loading effects. 2015 , 148, 229-239	22
1509	Self-adaptive differential evolution algorithm with discrete mutation control parameters. 2015 , 42, 1551-1	572 ₇₄
1508	. IEEE Transactions on Evolutionary Computation, 2015 , 19, 560-574	:.6 183

1507 Evolutionary optimization for disaster relief operations: A survey. 2015 , 27, 553-566	90
1506 Stochastic mid-term generation scheduling incorporated with wind power. 2015 , 64, 937-946	8
A modified differential evolution-based combined routing and sleep scheduling scheme for lifet maximization of wireless sensor networks. 2015 , 19, 637-659	ime ₁₈
1504 Interactive model-based search for global optimization. 2015 , 61, 479-495	3
1503 Modified differential evolution with self-adaptive parameters method. 2016 , 31, 546-576	33
1502 Particle swarm optimisation with adaptive selection of inertia weight strategy. 2016 , 13, 38	6
Sparse Antenna Array Design for MIMO Radar Using Multiobjective Differential Evolution. 2016 , 2016, 1-12	8
Logic Gate-based Evolutionary Algorithm for the multidimensional knapsack problem-wireless sensor network application. 2016 , 50, 825-843	
1499 Dichotomous Binary Differential Evolution for Knapsack Problems. 2016 , 2016, 1-12	8
Hybridization of Adaptive Differential Evolution with an Expensive Local Search Method. 2016 , 2016, 1-14	2
An Improved Nondominated Sorting Genetic Algorithm for Multiobjective Problem. 2016 , 2016,	1-7 4
Evolutionary Algorithms Applied to Antennas and Propagation: A Review of State of the Art. 20 ° 2016, 1-12	16 , 20
A Novel Hybrid Clonal Selection Algorithm with Combinatorial Recombination and Modified Hypermutation Operators for Global Optimization. 2016 , 2016, 6204728	3
An Enhanced Artificial Bee Colony Algorithm with Solution Acceptance Rule and Probabilistic Multisearch. 2016 , 2016, 8085953	15
Particle Swarm Optimization with Double Learning Patterns. 2016 , 2016, 6510303	9
1492 Improving an adaptive differential evolution using hill-valley detection. 2016 , 13, 1-13	1
1491 Binary Cockroach Swarm Optimization for Combinatorial Optimization Problem. 2016 , 9, 59	4
A Modified Cloud Particles Differential Evolution Algorithm for Real-Parameter Optimization. 20^{149}° 9, 78	016 , ₁

1489	Precision Position Control of a Voice Coil Motor Using Self-Tuning Fractional Order Proportional-Integral-Derivative Control. 2016 , 7,	6
1488	A simple and efficient co-operative approach for solving multi-modal problems. 2016,	
1487	Population-adaptive differential evolution-based power allocation algorithm for cognitive radio networks. 2016 , 2016,	6
1486	Erratum: âA novel combined forecasting model for short-term wind power prediction based on ensemble empirical mode decomposition and optimal virtual predictionâ[J. Renewable Sustainable Energy 8, 013104 (2016)]. 2016 , 8, 019902	
1485	An innovative natural-derived meta-heuristic optimization method. 2016 , 1	2
1484	Enhanced artificial bee colony algorithm through differential evolution. 2016 , 48, 137-150	41
1483	A real-time model based on optimized least squares support vector machine for industrial polypropylene melt index prediction. 2016 , 30, 324-331	16
1482	Population Segmentation-Based Variant of Differential Evolution Algorithm. 2016 , 401-410	1
1481	Evaluation of differential evolution with interaction network on a real-parameter optimization benchmark. 2016 ,	1
1480	A time performance comparison of particle swarm optimization in mobile devices. 2016 , 76, 04029	1
1479	Packing programming of space station spacewalk events based on bin packing theory and differential evolution algorithm. 2016 ,	4
1478	Clustering under Uncertainty Environment. 2016 , 59-98	
1477	A cooperative learning artificial bee colony algorithm with multiple search mechanisms. 2016 , 13, 113-124	8
1476	Opposition learning adaptive cross-generation differential evolution algorithm based multi-objective optimization of rolling schedule for tandem cold rolling. 2016 ,	
1475	. 2016,	
1474	Parameter estimation for a rice phenology model based on the differential evolution algorithm. 2016 ,	
1473	An Improved Differential Evolution Algorithm for Unconstrained Optimization Problems. 2016,	
1472	Design of a fuzzy bi-objective reliable p-hub center problem. 2016 , 30, 2563-2580	17

1471 .	2016,	7
	The importance of diversity in the application of evolutionary algorithms to the Sudoku problem.	3
1469 .	2016,	11
1468 .	2016,	2
	A preferred learning based adaptive differential evolution algorithm for large scale optimization.	
1466 T	wo-phase differential evolution framework for solving optimization problems. 2016,	7
	Comparison of Support Vector Machine and Artificial Neural Network for Delineating Debris Covered Glacier. 2016 , 550-557	О
1464 (GPU-powered Bat Algorithm for the parameter estimation of biochemical kinetic values. 2016,	2
1463	Classification guided differential evolution. 2016 ,	1
1462 N	Metaheuristic tuning of type-II fuzzy inference systems for data mining. 2016 ,	
	Covariance and crossover matrix guided differential evolution for global numerical optimization. 2 016 , 5, 1176	7
1401 2		7
1460	2016 , 5, 1176	
1460 C	Complex network analysis based adaptive differential evolution. 2016 , On the Transforming of the Indices Selection Mechanism inside Differential Evolution into Complex	
1460 C 1459 N 1458 ii	Complex network analysis based adaptive differential evolution. 2016 , On the Transforming of the Indices Selection Mechanism inside Differential Evolution into Complex Network. 2016 ,	1
1460 C 1459 N 1458 il	Complex network analysis based adaptive differential evolution. 2016, On the Transforming of the Indices Selection Mechanism inside Differential Evolution into Complex Network. 2016, L-SHADE: Improved L-SHADE algorithm for single objective real-parameter optimization. 2016, Testing united multi-operator evolutionary algorithms-II on single objective optimization problems.	1 61
1460 C 1459 N 1458 ii 1457 2	Complex network analysis based adaptive differential evolution. 2016, On the Transforming of the Indices Selection Mechanism inside Differential Evolution into Complex Network. 2016, L-SHADE: Improved L-SHADE algorithm for single objective real-parameter optimization. 2016, Testing united multi-operator evolutionary algorithms-II on single objective optimization problems. 2016,	1 61 20

1453	Differential evolution with an ensemble of low-quality surrogates for expensive optimization problems. 2016 ,	1
1452	Differential evolution with multi-stage strategies for global optimization. 2016,	6
1451	Success-history based adaptive differential evolution algorithm with multi-chaotic framework for parent selection performance on CEC2014 benchmark set. 2016 ,	26
1450	Tuning of an adaptive unified differential evolution algorithm for global optimization. 2016,	1
1449	Differential evolution with a two-stage optimization mechanism for numerical optimization. 2016,	19
1448	An ensemble of differential evolution algorithms with variable neighborhood search for constrained function optimization. 2016 ,	2
1447	Risk constrained battery energy storage planning in active distribution networks. 2016,	2
1446	Improving constrained glider trajectories for ocean eddy border sampling within extended mission planning time. 2016 ,	5
1445	Gradual and Cumulative Improvements to the Classical Differential Evolution Scheme through Experiments. 2016 , 54, 13-35	
1444	A stock price forecasting application using neural networks with multi-optimizer. 2016 ,	2
1443	QUasi-affine TRansformation Evolutionary (QUATRE) algorithm: A parameter-reduced differential evolution algorithm for optimization problems. 2016 ,	23
1442	Evaluating the performance of L-SHADE with competing strategies on CEC2014 single parameter-operator test suite. 2016 ,	8
1441	Extensions of the DECO3R algorithm for generating compact and cooperating Fuzzy Rule-based Classification Systems. 2016 ,	2
1440	A comparative study of STA on large scale global optimization. 2016 ,	2
1439	Evolutionary Process: Parallelism Analysis of Differential Evolution Algorithm Based on Graph Theory. 2016 , 151-162	
1438	Ensemble of Different Parameter Adaptation Techniques in Differential Evolution. 2016 , 73-79	1
1437	L-SHADE with competing strategies applied to CEC2015 learning-based test suite. 2016 ,	11
1436	Enhance continuous estimation of distribution algorithm by variance enlargement and reflecting sampling. 2016 ,	4

1435	An Improved Differential Evolution with a Novel Restart Mechanism. 2016,	2
1434	Adaptive CR values with fuzzy inference system for differential evolution algorithm. 2016,	
1433	An adaptive differential evolution with adaptive archive selection and hill-valley detection. 2016,	
1432	Hybrid parameter control approach applied to a diversity-based multi-objective memetic algorithm for frequency assignment problems. 2016 ,	2
1431	ADEMO/D: An adaptive differential evolution for protein structure prediction problem. 2016 , 56, 209-226	20
1430	Hybrid self-adaptive cuckoo search for global optimization. 2016 , 29, 47-72	76
1429	Metaheuristics for Continuous Optimization of High-Dimensional Problems: State of the Art and Perspectives. 2016 , 437-460	2
1428	A differential evolution algorithm for yield curve estimation. 2016 , 129, 10-30	7
1427	A clustering-based differential evolution with random-based sampling and Gaussian sampling. 2016 , 205, 229-246	16
1426	Modified Single Array Selection Operation for DE Algorithm. 2016 , 795-803	3
1425	Negatively Correlated Search. 2016, 34, 542-550	53
1424	Hysteretic Model for Shear-Critical Reinforced Concrete Columns. 2016 , 142, 04016056	14
1423	A robust memory based hybrid differential evolution for continuous optimization problem. 2016 , 103, 118-131	19
1422	Power system static state estimation using a least winsorized square robust estimator. 2016 , 207, 457-468	5
1421	TADE: Tight Adaptive Differential Evolution. 2016 , 113-122	
1421 1420	TADE: Tight Adaptive Differential Evolution. 2016 , 113-122 Optimal design of truss structures with frequency constraints using improved differential evolution algorithm based on an adaptive mutation scheme. 2016 , 68, 81-94	41
,	Optimal design of truss structures with frequency constraints using improved differential evolution	26

1417	QUasi-Affine TRansformation Evolutionary (QUATRE) algorithm: A cooperative swarm based algorithm for global optimization. 2016 , 109, 104-121	102
1416	May the same numerical optimizer be used when searching either for the best or for the worst solution to a real-world problem?. 2016 , 373, 124-148	2
1415	A hybrid algorithm based on BFA and PSO for optimal reactive power problem. 2016,	2
1414	Self-adaptive differential approach for transient stability constrained optimal power flow. 2016 , 10, 3717-372	6 9
1413	Target shape design optimization by evolving B-splines with cooperative coevolution. 2016 , 48, 672-682	13
1412	A decremental stochastic fractal differential evolution for global numerical optimization. 2016 , 372, 470-491	19
1411	Extended Kalman smoother with differential evolution technique for denoising of ECG signal. 2016 , 39, 783-95	17
1410	A novel hybrid differential evolution algorithm with modified CoDE and JADE. 2016 , 47, 577-599	46
1409	Social group optimization (SGO): a new population evolutionary optimization technique. 2016 , 2, 173-203	111
1408	An Orthogonal Genetic Algorithm for QoS-Aware Service Composition. 2016 , 59, 1857-1871	13
1407	Analysis of high-order SNP barcodes in mitochondrial D-loop for chronic dialysis susceptibility. 2016 , 63, 112-119	8
1406	Mathematical Modeling and Computational Intelligence in Engineering Applications. 2016,	1
1405	Development of Ant Lion Optimizer toolkit in LabVIEWâ[]2016,	4
1404	Evolutionary computation for feature manipulation: Key challenges and future directions. 2016,	4
1403	Searching a probabilistic model for differential evolution population. 2016 ,	O
1402	Searching for structural bias in particle swarm optimization and differential evolution algorithms. 2016 , 10, 307-353	14
1401	Differential Evolution with strategy of improved population diversity. 2016,	2
1400	Cooperative coevolutionary differential evolution with improved augmented Lagrangian to solve constrained optimisation problems. 2016 , 369, 441-456	30

1399	Corrective economic dispatch and operational cycles for probabilistic unit commitment with demand response and high wind power. 2016 , 182, 634-651	47
1398	Probability collectives hybridised with differential evolution for global optimisation. 2016 , 8, 133	19
1397	Design of Takagi-Sugeno fuzzy controller for VSC-HVDC parallel AC transmission system using differential evolution algorithm. 2016 , 8, 277	2
1396	A new modified differential evolution for global optimisation. 2016 , 10, 56	3
1395	On the convergence of multivariant optimization algorithm. 2016 , 48, 230-239	4
1394	Enhanced differential evolution using local Lipschitz underestimate strategy for computationally expensive optimization problems. 2016 , 48, 169-181	14
1393	Utilizing cumulative population distribution information in differential evolution. 2016, 48, 329-346	60
1392	Multi-Population Based Ensemble Mutation Method for Single Objective Bilevel Optimization Problem. 2016 , 4, 7262-7274	10
1391	Framework arrangement of directional relays in meshed networks based on differential evolution algorithm. 2016 ,	2
1390	Training cost-sensitive Deep Belief Networks on imbalance data problems. 2016,	27
1390	Training cost-sensitive Deep Belief Networks on imbalance data problems. 2016, Prediction of effluent from WWTPs using differential evolutionary extreme learning machines. 2016,	27 4
	Prediction of effluent from WWTPs using differential evolutionary extreme learning machines.	
1389	Prediction of effluent from WWTPs using differential evolutionary extreme learning machines. 2016, Optimizing a fuzzy logic traffic signal controller via the differential evolution algorithm under	4
1389 1388	Prediction of effluent from WWTPs using differential evolutionary extreme learning machines. 2016, Optimizing a fuzzy logic traffic signal controller via the differential evolution algorithm under different traffic scenarios. 2016, 92, 1013-1023 Design of model predictive control for time-varying nonlinear system based on gaussian process	7
1389 1388 1387	Prediction of effluent from WWTPs using differential evolutionary extreme learning machines. 2016, Optimizing a fuzzy logic traffic signal controller via the differential evolution algorithm under different traffic scenarios. 2016, 92, 1013-1023 Design of model predictive control for time-varying nonlinear system based on gaussian process regression modeling. 2016,	7
1389 1388 1387 1386	Prediction of effluent from WWTPs using differential evolutionary extreme learning machines. 2016, Optimizing a fuzzy logic traffic signal controller via the differential evolution algorithm under different traffic scenarios. 2016, 92, 1013-1023 Design of model predictive control for time-varying nonlinear system based on gaussian process regression modeling. 2016, Dynamic Optimization of the Tandem Acetylene Hydrogenation Process. 2016, 55, 11983-11995 Differential evolution technique in solving HEPWM switching angles of three-phase voltage source	7
1389 1388 1387 1386	Prediction of effluent from WWTPs using differential evolutionary extreme learning machines. 2016, Optimizing a fuzzy logic traffic signal controller via the differential evolution algorithm under different traffic scenarios. 2016, 92, 1013-1023 Design of model predictive control for time-varying nonlinear system based on gaussian process regression modeling. 2016, Dynamic Optimization of the Tandem Acetylene Hydrogenation Process. 2016, 55, 11983-11995 Differential evolution technique in solving HEPWM switching angles of three-phase voltage source inverter. 2016,	7

(2016-2016)

1381	A subpopulation-based differential evolution algorithm for scheduling with batching decisions in steelmaking-continuous casting production. 2016 ,	О
1380	On the influence of different randomization and complex network analysis for differential evolution. 2016 ,	8
1379	Study on the Time Development of Complex Network for Metaheuristic. 2016, 525-533	5
1378	A novel differential evolution algorithm using local abstract convex underestimate strategy for global optimization. 2016 , 75, 132-149	23
1377	A self-adaptive binary differential evolution algorithm for large scale binary optimization problems. 2016 , 367-368, 487-511	34
1376	Three Types of Differential Evolution Applied to the Facility Location Problem. 2016 , 487-499	1
1375	An improved artificial bee colony and its application. 2016 , 107, 14-31	45
1374	Hybrid Metaheuristics. 2016 ,	1
1373	Biogeography-based optimization with covariance matrix based migration. 2016 , 45, 71-85	39
1372	An alternative adaptive differential evolutionary Algorithm assisted by Expected Improvement criterion and cut-HDMR expansion and its application in time-based sheet forming design. 2016 , 97, 96-107	21
1371	Epistatic arithmetic crossover based on Cartesian graph product in ensemble differential evolution. 2016 , 283, 181-194	4
1370	A differential-based harmony search algorithm for the optimization of continuous problems. 2016 , 62, 317-332	22
1369	Automatic correction of barrel distorted images using a cascaded evolutionary estimator. 2016 , 366, 70-98	2
1368	Optimal design of proportional-integral controllers for stand-alone solid oxide fuel cell power plant using differential evolution algorithm. 2016 , 5, 383	2
1367	Enhancing Cooperative Coevolution with Surrogate-Assisted Local Search. 2016 , 63-90	1
1366	A hybrid functional link dynamic neural network and evolutionary unscented Kalman filter for short-term electricity price forecasting. 2016 , 27, 2123-2140	10
1365	DECO3R: A Differential Evolution-based algorithm for generating compact Fuzzy Rule-based Classification Systems. 2016 , 105, 160-174	17
1364	Self-adaptive multi-objective evolutionary algorithm based on decomposition for large-scale problems: A case study on reservoir flood control operation. 2016 , 367-368, 529-549	35

1363	Gaussian bare-bones artificial bee colony algorithm. 2016 , 20, 907-924	47
1362	SAMCCTLBO: a multi-class cooperative teachingâlearning-based optimization algorithm with simulated annealing. 2016 , 20, 1921-1943	23
1361	Cellular direction information based differential evolution for numerical optimization: an empirical study. 2016 , 20, 2801-2827	24
1360	Adaptive composite operator selection and parameter control for multiobjective evolutionary algorithm. 2016 , 339, 332-352	49
1359	Differential evolution framework for big data optimization. 2016 , 8, 17-33	30
1358	Differential evolution algorithms for scheduling raw milk transportation. 2016 , 121, 245-259	48
1357	Self-adaptive differential evolution algorithm with crossover strategies adaptation and its application in parameter estimation. 2016 , 151, 164-171	29
1356	A Hybrid Group Search Optimizer with Opposition-Based Learning and Differential Evolution. 2016 , 3-12	2
1355	A shrinking hypersphere PSO for engineering optimisation problems. 2016 , 28, 1-33	4
1354	Advanced methods for the estimation of an unknown projection from a map. 2016 , 20, 241-284	7
1353	A novel hybrid Cultural Algorithms framework with trajectory-based search for global numerical optimization. 2016 , 334-335, 219-249	29
1352	Constrained minâthax optimization via the improved constraint-activated differential evolution with escape vectors. 2016 , 46, 336-345	2
1351	Nature-Inspired Computation in Engineering. 2016 ,	13
1350	A two-step approach for damage detection in laminated composite structures using modal strain energy method and an improved differential evolution algorithm. 2016 , 147, 42-53	70
1349	. 2016 , 12, 911-923	28
1348	Damage Detection in Laminated Composite Plates Using Modal Strain Energy and Improved Differential Evolution Algorithm. 2016 , 142, 182-189	26
1347	A Novel Diversity-Based Replacement Strategy for Evolutionary Algorithms. 2016 , 46, 3233-3246	29
1346	Compact line source generator for low profile continuous transverse stub array antenna. 2016 ,	3

1345	Improved differential evolution algorithm of model-based diagnosis in traction substation fault diagnosis of high-speed railway. 2016 , 6, 163-169	9
1344	Constrained differential evolution optimization for underwater glider path planning in sub-mesoscale eddy sampling. 2016 , 42, 93-118	43
1343	An adaptive multi-population differential evolution algorithm for continuous multi-objective optimization. 2016 , 348, 124-141	58
1342	The use of differential evolution algorithm for solving chemical engineering problems. 2016 , 32,	14
1341	Multi-point source identification of sudden water pollution accidents in surface waters based on differential evolution and MetropolisâHastingsâMarkov Chain Monte Carlo. 2016 , 30, 507-522	19
1340	Adaptive differential evolution algorithm with novel mutation strategies in multiple sub-populations. 2016 , 67, 155-173	134
1339	A novel hybrid algorithm of gravitational search algorithm with genetic algorithm for multi-level thresholding. 2016 , 46, 703-730	61
1338	Deterministic and probabilistic interval prediction for short-term wind power generation based on variational mode decomposition and machine learning methods. 2016 , 112, 208-219	101
1337	Recent advances in differential evolution âlʿAn updated survey. 2016 , 27, 1-30	889
1336	A novel adaptive hybrid crossover operator for multiobjective evolutionary algorithm. 2016 , 345, 177-198	35
1335	An Experience Information Teachingâllearning-Based Optimization for Global Optimization. 2016 , 46, 1202-1214	16
1334	Differential evolution with guiding archive for global numerical optimization. 2016 , 43, 424-440	22
1333	Adaptive Cross-Generation Differential Evolution Operators for Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 232-244	71
1332	Optimization of fuzzy controller design using a new bee colony algorithm with fuzzy dynamic parameter adaptation. 2016 , 43, 131-142	105
1331	A Novel Elliptical-Cylindrical Antenna Array for Radar Applications. 2016 , 64, 1681-1688	24
1330	Dynamic Configuration of Differential Evolution Control Parameters and Operators. 2016 , 78-88	1
1329	Optimization of laminated composite plates for maximizing buckling load using improved differential evolution and smoothed finite element method. 2016 , 146, 132-147	45
1328	Optimization Algorithms in Optimal Predictions of Atomistic Properties by Kriging. 2016 , 12, 1499-513	19

1327	Differential evolution-based feature selection and parameter optimisation for extreme learning machine in tool wear estimation. 2016 , 54, 4703-4721	20
1326	A novel hybrid optimizer for solving Economic Load Dispatch problem. 2016 , 78, 108-126	24
1325	Transmission expansion planning optimization by adaptive multi-operator evolutionary algorithms. 2016 , 133, 173-181	29
1324	An adaptive elitist differential evolution for optimization of truss structures with discrete design variables. 2016 , 165, 59-75	125
1323	Which algorithm should I choose: An evolutionary algorithm portfolio approach. 2016 , 40, 654-673	24
1322	An Elitist Genetic Algorithm Based Extreme Learning Machine. 2016 , 301-309	1
1321	An improved adaptive differential evolution algorithm for continuous optimization. 2016 , 44, 1-12	55
1320	Improved differential evolution algorithms for solving generalized assignment problem. 2016 , 45, 450-459	34
1319	Evolutionary pulse-coupled neural network for segmenting breast lesions on ultrasonography. 2016 , 175, 877-887	12
1318	Cognitive behavior optimization algorithm for solving optimization problems. 2016 , 39, 199-222	31
1317	A differential evolution algorithm with self-adaptive strategy and control parameters based on symmetric Latin hypercube design for unconstrained optimization problems. 2016 , 250, 30-45	56
1316	Opposition-based Magnetic Optimization Algorithm with parameter adaptation strategy. 2016 , 26, 97-119	7
1315	Stochastic Opposition-Based Learning Using a Beta Distribution in Differential Evolution. 2016 , 46, 2184-2194	38
1314	Fast Micro-Differential Evolution for Topological Active Net Optimization. 2016 , 46, 1411-23	20
1313	Differential evolution with multi-population based ensemble of mutation strategies. 2016 , 329, 329-345	306
1312	On the importance of training methods and ensemble aggregation for runoff prediction by means of artificial neural networks. 2016 , 1-23	2
1311	The performance comparison of a new version of artificial raindrop algorithm on global numerical optimization. 2016 , 179, 1-25	15
1310	Improving differential evolution with a new selection method of parents for mutation. 2016 , 10, 246-269	12

1309	Multi-objective optimisation and decision-making of space station logistics strategies. 2016 , 47, 3132-3148	7
1308	A memory based differential evolution algorithm for unconstrained optimization. 2016 , 38, 501-517	42
1307	Opposition-based learning in the shuffled bidirectional differential evolution algorithm. 2016 , 26, 64-85	22
1306	Teaching-learning-based optimization with variable-population scheme and its application for ANN and global optimization. 2016 , 173, 1096-1111	27
1305	. 2016 , 65, 1676-1689	17
1304	Genetic Learning Particle Swarm Optimization. 2016 , 46, 2277-2290	268
1303	Across neighborhood search for numerical optimization. 2016 , 329, 597-618	60
1302	Evolutionary predator and prey strategy for global optimization. 2016 , 327, 217-232	14
1301	Modified differential evolution algorithm for simple assembly line balancing with a limit on the number of machine types. 2016 , 48, 253-271	24
1300	Optimal proton exchange membrane fuel cell modelling based on hybrid Teaching Learning Based Optimization âlDifferential Evolution algorithm. 2016 , 7, 347-360	63
1299	Self-adapting hybrid strategy particle swarm optimization algorithm. 2016 , 20, 4933-4963	13
1298	Parallel hybridization of differential evolution and particle swarm optimization for constrained optimization with its application. 2016 , 7, 143-162	4
1297	Adaptive direction information in differential evolution for numerical optimization. 2016, 20, 465-494	20
1296	Bolstering efficient SSGAs based on an ensemble of probabilistic variable-wise crossover strategies. 2016 , 20, 2149-2176	3
1295	Levy distributed parameter control in differential evolution for numerical optimization. 2016, 15, 371-384	4
1294	Adaptive Evolutionary Neural Networks for Forecasting and Trading without a Data-Snooping Bias. 2016 , 35, 1-12	9
1293	Self-Adaptive Differential Evolution Algorithm With Zoning Evolution of Control Parameters and Adaptive Mutation Strategies. 2016 , 46, 219-32	118
1292	A new guiding force strategy for differential evolution. 2017 , 8, 2170-2183	14

1291	Differential evolution optimization with time-frame strategy adaptation. 2017 , 21, 2991-3012	3
1290	Differential Evolution With Event-Triggered Impulsive Control. 2017 , 47, 244-257	80
1289	Fireworks Algorithm with Enhanced Fireworks Interaction. 2017 , 14, 42-55	34
1288	Neighborhood guided differential evolution. 2017 , 21, 4769-4812	17
1287	Forecasting financial time series using a low complexity recurrent neural network and evolutionary learning approach. 2017 , 29, 536-552	32
1286	Self-adaptive differential evolution with global neighborhood search. 2017 , 21, 3759-3768	19
1285	An efficient modified differential evolution algorithm for solving constrained non-linear integer and mixed-integer global optimization problems. 2017 , 8, 989-1007	21
1284	Bimodal fruit fly optimization algorithm based on cloud model learning. 2017 , 21, 1877-1893	17
1283	Swarm and evolutionary computing algorithms for system identification and filter design: A comprehensive review. 2017 , 32, 68-84	53
1282	A novel hybrid classification framework using SVM and differential evolution. 2017 , 21, 4029-4044	4
1282 1281	A novel hybrid classification framework using SVM and differential evolution. 2017 , 21, 4029-4044 Ideology algorithm: a socio-inspired optimization methodology. 2017 , 28, 845-876	31
1281		
1281	Ideology algorithm: a socio-inspired optimization methodology. 2017 , 28, 845-876	31
1281 1280	Ideology algorithm: a socio-inspired optimization methodology. 2017 , 28, 845-876 Review of Differential Evolution population size. 2017 , 32, 1-24	31
1281 1280 1279	Ideology algorithm: a socio-inspired optimization methodology. 2017 , 28, 845-876 Review of Differential Evolution population size. 2017 , 32, 1-24 Differential Evolution with Grid-Based Parameter Adaptation. 2017 , 21, 2105-2127 Metaheuristic-based simulation optimization approach to network revenue management with an	31 122 13
1281 1280 1279 1278	Ideology algorithm: a socio-inspired optimization methodology. 2017, 28, 845-876 Review of Differential Evolution population size. 2017, 32, 1-24 Differential Evolution with Grid-Based Parameter Adaptation. 2017, 21, 2105-2127 Metaheuristic-based simulation optimization approach to network revenue management with an improved self-adjusting bid price function. 2017, 62, 3-32 Decomposition-based multi-objective evolutionary algorithm with mating neighborhood sizes and	31 122 13
1281 1280 1279 1278	Ideology algorithm: a socio-inspired optimization methodology. 2017, 28, 845-876 Review of Differential Evolution population size. 2017, 32, 1-24 Differential Evolution with Grid-Based Parameter Adaptation. 2017, 21, 2105-2127 Metaheuristic-based simulation optimization approach to network revenue management with an improved self-adjusting bid price function. 2017, 62, 3-32 Decomposition-based multi-objective evolutionary algorithm with mating neighborhood sizes and reproduction operators adaptation. 2017, 21, 6381-6392 A novel local exploitation scheme for conditionally breeding real-coded genetic algorithm. 2017,	31 122 13 3

(2017-2017)

1273	Solving non-smooth economic dispatch by a new combination of continuous GRASP algorithm and differential evolution. 2017 , 84, 13-24	67
1272	Artificial bee colony algorithm with strategy and parameter adaptation for global optimization. 2017 , 28, 349-364	6
1271	Integrated Cat Swarm Optimization and Differential Evolution Algorithm for Optimal IIR Filter Design in Multi-Objective Framework. 2017 , 36, 270-296	8
1270	A novel fuzzy K-nearest neighbor inference model with differential evolution for spatial prediction of rainfall-induced shallow landslides in a tropical hilly area using GIS. 2017 , 14, 1-17	85
1269	Evolved synaptic delay based neural controllers for walking patterns in hexapod robotic structures. 2017 , 16, 201-211	О
1268	Multiple Exponential Recombination for Differential Evolution. 2017 , 47, 995-1006	52
1267	Improving differential evolution by differential vector archive and hybrid repair method for global optimization. 2017 , 21, 7107-7116	14
1266	Prior knowledge guided differential evolution. 2017 , 21, 6841-6858	14
1265	Hierarchical multi-swarm cooperative teachingâlearning-based optimization for global optimization. 2017 , 21, 6983-7004	13
1264	Sampling-based adaptive bounding evolutionary algorithm for continuous optimization problems. 2017 , 382-383, 216-233	7
1263	Improved Harmony Search Algorithm: LHS. 2017 , 53, 133-167	47
1262	Static force capability optimization of humanoids robots based on modified self-adaptive differential evolution. 2017 , 84, 205-215	12
1261	Since CEC 2005 competition on real-parameter optimisation: a decade of research, progress and comparative analysisâl weakness. 2017 , 21, 5573-5583	41
1260	Electrical hubs: An effective way to integrate non-dispatchable renewable energy sources with minimum impact to the grid. 2017 , 190, 232-248	82
1259	Particle swarm optimization using multi-level adaptation and purposeful detection operators. 2017 , 385-386, 174-195	22
1258	Optimization of Power Consumption in 4G LTE Networks Using a Novel Barebones Self-adaptive Differential Evolution Algorithm. 2017 , 66, 109-120	9
1257	Economic statistical design of ARMA control chart through a Modified Fitness-based Self-Adaptive Differential Evolution. 2017 , 105, 174-189	16
1256	Extraction of fetal ECG signal by an improved method using extended Kalman smoother framework from single channel abdominal ECG signal. 2017 , 40, 191-207	20

1255	The Comparisons of Optimized Extended Kalman Filters for Speed-Sensorless Control of Induction Motors. 2017 , 64, 4340-4351	86
1254	Improving Evolutionary Algorithms in a Continuous Domain by Monitoring the Population Midpoint. IEEE Transactions on Evolutionary Computation, 2017, 21, 807-812	15
1253	Multi-search differential evolution algorithm. 2017 , 47, 231-256	20
1252	Vector coevolving particle swarm optimization algorithm. 2017 , 394-395, 273-298	46
1251	Ensemble particle swarm optimizer. 2017 , 55, 533-548	143
1250	Review: Multi-objective optimization methods and application in energy saving. 2017 , 125, 681-704	255
1249	Application of mutation operators to flower pollination algorithm. 2017 , 79, 112-129	75
1248	Differential evolution powered by collective information. 2017 , 399, 13-29	59
1247	A new adaptive differential evolution optimization algorithm based on fuzzy inference system. 2017 , 20, 587-597	11
1246	Multilevel thresholding based on Chaotic Darwinian Particle Swarm Optimization for segmentation of satellite images. 2017 , 55, 503-522	59
1245	An adaptive artificial bee colony algorithm based on objective function value information. 2017 , 55, 384-401	29
1244	Fundamentals of Evolutionary Computation. 2017 , 11-32	
1243	Application of differential evolution algorithm in static and dynamic economic or emission dispatch problem: A review. 2017 , 77, 1206-1220	46
1242	Self-adaptive differential evolution algorithm with improved mutation mode. 2017 , 47, 644-658	27
1241	Solving large-scale global optimization problems using enhanced adaptive differential evolution algorithm. 2017 , 3, 205-231	31
1240	Effective parametersâlidentification for polymer electrolyte membrane fuel cell models using grey wolf optimizer. 2017 , 111, 455-462	96
1239	Multi-vehicle selective pickup and delivery using metaheuristic algorithms. 2017, 406-407, 146-169	19
1238	CMDR based differential evolution identifies the epistatic interaction in genome-wide association studies. 2017 , 33, 2354-2362	28

1237	A local search enhanced differential evolutionary algorithm for sparse recovery. 2017 , 57, 144-163	10
1236	Differential Evolution Based on Self-Adaptive Fitness Function for Automated Test Case Generation. 2017 , 12, 46-55	11
1235	Memory based Hybrid Dragonfly Algorithm for numerical optimization problems. 2017, 83, 63-78	119
1234	Determination of wavefront attributes by differential evolution in the presence of conflicting dips. 2017 , 82, V229-V239	22
1233	Global-best brain storm optimization algorithm. 2017 , 37, 27-44	64
1232	A memetic algorithm for real world multi-intersection traffic signal optimisation problems. 2017 , 63, 45-53	25
1231	Improving the Convergence of Differential Evolution. 2017 , 252-260	1
1230	An enhanced artificial bee colony algorithm with adaptive differential operators. 2017 , 58, 480-494	29
1229	Parameters identification of photovoltaic models using self-adaptive teaching-learning-based optimization. 2017 , 145, 233-246	142
1228	Homeostasis mutation based differential evolution algorithm. 2017 , 32, 3525-3537	5
1227	Using differential evolution strategies in chemical reaction optimization for global numerical optimization. 2017 , 47, 935-961	2
1226	Spectral library material separability using WorldView-3 and Landsat-8 spectral bands. 2017,	
1225	A grey artificial bee colony algorithm. 2017 , 60, 1-17	20
1224	Cislunar Navigation Constellation by Displaced Solar Sails. 2017 , 70, 963-982	2
1223	A variant of environmental adaptation method with real parameter encoding and its application in economic load dispatch problem. 2017 , 47, 409-429	10
1222	An Efficient Multiple Variants Coordination Framework for Differential Evolution. 2017 , 47, 2780-2793	21
1221	Circular antenna design by adaptive position inheritance artificial bee colony algorithm. 2017, 25, 369-375	4
1220	Integrated Multi-Objective Differential Evolution and its Application to Amine Absorption Process for Natural Gas Sweetening. 2017 , 128-155	3

1219	A Hybrid Artificial Intelligence Method to Predict Gas Solubility and Bubble Point Pressure. 2017,	4
1218	A learning and niching based backtracking search optimisation algorithm and its applications in global optimisation and ANN training. 2017 , 266, 579-594	14
1217	Blind modulation classification algorithm based on machine learning for spatially correlated MIMO system. 2017 , 11, 1000-1007	13
1216	A novel artificial bee colony algorithm with an adaptive population size for numerical function optimization. 2017 , 414, 53-67	50
1215	Improved Differential Evolution With a Modified Orthogonal Learning Strategy. 2017 , 5, 9699-9716	23
1214	Neighborhood-adaptive differential evolution for global numerical optimization. 2017, 59, 659-706	22
1213	An External Archive-Guided Multiobjective Particle Swarm Optimization Algorithm. 2017, 47, 2794-2808	58
1212	Abstract Convex Underestimation Assisted Multistage Differential Evolution. 2017 , 47, 2730-2741	31
1211	MODCSA-CA: A multi objective diversity controlled self adaptive cuckoo algorithm for protein structure prediction. 2017 , 8, 100-106	2
121 0	An adaptive differential evolution algorithm with an aging leader and challengers mechanism. 2017 , 57, 60-73	31
1209	Real-life Applications with Membrane Computing. 2017,	67
1208	A switched parameter differential evolution with optional blending crossover for scalable numerical optimization. 2017 , 57, 329-352	30
1207	Parameter Identification of Permanent Magnet Synchronous Machine Based on an Adaptive Mutation Dynamic Differential Evolution. 2017 , 139,	2
1206	Adaptive Differential Evolution With Sorting Crossover Rate for Continuous Optimization Problems. 2017 , 47, 2742-2753	71
1205	Enhanced harmony search with dual strategies and adaptive parameters. 2017 , 21, 4431-4445	8
1204	An Adaptive Convergence-Trajectory Controlled Ant Colony Optimization Algorithm With Application to Water Distribution System Design Problems. <i>IEEE Transactions on Evolutionary</i> 15.6 Computation, 2017 , 21, 773-791	83
1203	Multi-population parallel self-adaptive differential artificial bee colony algorithm with application in large-scale service composition for cloud manufacturing. 2017 , 56, 379-397	88
1202	A Weighted Biobjective Transformation Technique for Locating Multiple Optimal Solutions of Nonlinear Equation Systems. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 697-713	41

1201	Swarm Intelligence and Evolutionary Algorithms: Performance versus speed. 2017, 384, 34-85		60
1200	Improving Diversity in Evolutionary Algorithms: New Best Solutions for Frequency Assignment. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 539-553	15.6	35
1199	Risk-aware short term hydro-wind-thermal scheduling using a probability interval optimization model. 2017 , 189, 534-554		44
1198	Sequence-Based Deterministic Initialization for Evolutionary Algorithms. 2017 , 47, 2911-2923		13
1197	Thermodynamic optimization design for plate-fin heat exchangers by Tsallis JADE. 2017 , 113, 136-144		20
1196	Reanalysis-based space mapping method, an alternative optimization way for expensive simulation-based problems. 2017 , 55, 2143-2157		11
1195	Optimization of turning process using Amended Differential Evolution Algorithm. 2017 , 20, 1285-1301		4
1194	An optimization algorithm based on behavior of see-see partridge chicks. 2017 , 33, 3227-3240		9
1193	Optimal feature selection using a modified differential evolution algorithm and its effectiveness for prediction of heart disease. 2017 , 90, 125-136		69
1192	Chaotic symbiotic organisms search for task scheduling optimization on cloud computing environment. 2017 ,		7
1191	Dynamic multi-objective evolutionary algorithms for single-objective optimization. 2017 , 61, 793-805		16
1190	Minimizing harmonic distortion in power system with optimal design of hybrid active power filter using differential evolution. 2017 , 61, 486-496		41
1189	Rr-cr-IJADE: An efficient differential evolution algorithm for multilevel image thresholding. 2017 , 90, 272-289		19
1188	A novel multi-swarm particle swarm optimization with dynamic learning strategy. 2017 , 61, 832-843		73
1187	Trajectory optimization for solar sail in cislunar navigation constellation with minimal lightness number. 2017 , 70, 559-567		9
1186	Quantum learning control using differential evolution with equally-mixed strategies. 2017 , 15, 226-241		5
1185	A novel parallel-series hybrid meta-heuristic method for solving a hybrid unit commitment problem. 2017 , 134, 13-30		29
1184	Hybrid invasive weed/biogeography-based optimization. 2017 , 64, 213-231		24

1183	A novel adaptive feed-forward-PID controller of a SCARA parallel robot using pneumatic artificial muscle actuator based on neural network and modified differential evolution algorithm. 2017 , 96, 65-80	33
1182	Differential evolution algorithm as a tool for optimal feature subset selection in motor imagery EEG. 2017 , 90, 184-195	75
1181	Accurate mixed weibull distribution fitting by differential evolution. 2017,	1
1180	A ranking-based adaptive artificial bee colony algorithm for global numerical optimization. 2017 , 417, 169-185	65
1179	A novel fault diagnosis method based on optimal relevance vector machine. 2017 , 267, 651-663	22
1178	An ensemble prediction intervals approach for short-term PV power forecasting. 2017 , 155, 1072-1083	58
1177	SHADE Algorithm Dynamic Analyzed Through Complex Network. 2017 , 666-677	
1176	Study on the Development of Complex Network for Evolutionary and Swarm Based Algorithms. 2017 , 151-161	1
1175	Landscape-based adaptive operator selection mechanism for differential evolution. 2017, 418-419, 383-404	39
1174	Inverse solution to heat transfer coefficient during heat assembly of aluminum alloy drill pipes. 2017 , 9, 168781401771497	4
1173	Optimal path planning for vehicles under navigation relayed by multiple stations. 2017,	
1172	The energy demand estimation for Turkey using differential evolution algorithm. 2017 , 42, 1705-1715	8
1171	Adaptive Cauchy Differential Evolution with Strategy Adaptation and Its Application to Training Large-Scale Artificial Neural Networks. 2017 , 502-510	7
1171 1170		7
	Large-Scale Artificial Neural Networks. 2017 , 502-510 Extracting Optimal Policies of Hydropower Multi-Reservoir Systems Utilizing Enhanced Differential	
1170	Extracting Optimal Policies of Hydropower Multi-Reservoir Systems Utilizing Enhanced Differential Evolution Algorithm. 2017, 31, 4375-4397 Shift based adaptive differential evolution for PID controller designs using swarm intelligence	19
1170 1169	Extracting Optimal Policies of Hydropower Multi-Reservoir Systems Utilizing Enhanced Differential Evolution Algorithm. 2017, 31, 4375-4397 Shift based adaptive differential evolution for PID controller designs using swarm intelligence algorithm. 2017, 20, 291-299 Disaster prediction model based on support vector machine for regression and improved	19 7

1165	Clustering and differential evolution for multimodal optimization. 2017,	6
1164	Single objective real-parameter optimization: Algorithm jSO. 2017 ,	120
1163	LSHADE with semi-parameter adaptation hybrid with CMA-ES for solving CEC 2017 benchmark problems. 2017 ,	89
1162	Differential evolution algorithm with learning selection strategy for SAR image change detection. 2017 ,	2
1161	Optimal placement of wind turbines in a windfarm using L-SHADE algorithm. 2017 ,	8
1160	A noise resilient Differential Evolution with improved parameter and strategy control. 2017 ,	5
1159	Modeling and optimization of functionally graded plates under thermo-mechanical load using isogeometric analysis and adaptive hybrid evolutionary firefly algorithm. 2017 , 179, 89-106	38
1158	Analyzing effects of ordering vectors in mutation schemes on performance of Differential Evolution. 2017 ,	4
1157	Adaptive constraint handling and Success History Differential Evolution for CEC 2017 Constrained Real-Parameter Optimization. 2017 ,	13
1156	A novel differential crossover strategy based on covariance matrix learning with Euclidean neighborhood for solving real-world problems. 2017 ,	4
1155	Enhanced individual-dependent differential evolution with population size adaptation. 2017,	10
1154	. 2017,	4
1153	A unified differential evolution algorithm for constrained optimization problems. 2017,	34
1152	A simple framework for constrained problems with application of L-SHADE44 and IDE. 2017 ,	12
1151	An efficient multi-stage optimization approach for damage detection in plate structures. 2017 , 112, 76-87	37
1150	Minimizing THD of multilevel inverters with optimal values of DC voltages and switching angles using LSHADE-EpSin algorithm. 2017 ,	7
1149	Design of multi-product multi-period two-echelon supply chain network to minimize bullwhip effect through differential evolution. 2017 ,	2
1148	Classification of breast masses in ultrasound images using self-adaptive differential evolution extreme learning machine and rough set feature selection. 2017 , 4, 024507	6

1147	Are modern metaheuristics successful in calibrating simple conceptual rainfallafunoff models?. 2017 , 62, 606-625	16
1146	Evolutionary Cost-Sensitive Extreme Learning Machine. 2017 , 28, 3045-3060	106
1145	Differential Evolution with Landscape-Based Operator Selection for Solving Numerical Optimization Problems. 2017 , 371-387	4
1144	Micro-differential evolution: Diversity enhancement and a comparative study. 2017 , 52, 812-833	16
1143	Enhanced differential evolution algorithm for coordination of directional overcurrent relays. 2017 , 143, 365-375	35
1142	An Adaptive Multipopulation Differential Evolution With Dynamic Population Reduction. 2017 , 47, 2768-2779	71
1141	Multiobjective Deep Belief Networks Ensemble for Remaining Useful Life Estimation in Prognostics. 2017 , 28, 2306-2318	310
1140	Improving sampling-based image matting with cooperative coevolution differential evolution algorithm. 2017 , 21, 4417-4430	14
1139	Cloudde: A Heterogeneous Differential Evolution Algorithm and Its Distributed Cloud Version. 2017 , 28, 704-716	100
1138	Adaptive Btable differential evolution in numerical optimization. 2017 , 16, 637-657	9
1137	New mutation strategies of differential evolution based on clearing niche mechanism. 2017 , 21, 5939-5974	6
1136	A global numerical approach for lightweight design optimization of laminated composite plates subjected to frequency constraints. 2017 , 159, 646-655	47
1135	A novel adaptive control strategy for decomposition-based multiobjective algorithm. 2017 , 78, 94-107	17
1134	A novel mutation operator based on the union of fitness and design spaces information for Differential Evolution. 2017 , 21, 6555-6562	7
1133	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
1132	Improved backtracking search algorithm for pseudo dynamic active earth pressure on retaining wall supporting c- lb ackfill. 2017 , 52, 885-897	42
1131	Adaptive mixed differential evolution algorithm for bi-objective tooth profile spur gear optimization. 2017 , 90, 2063-2073	35
1130	A machine-learning based memetic algorithm for the multi-objective permutation flowshop scheduling problem. 2017 , 79, 60-77	39

Snap-drift cuckoo search: A novel cuckoo search optimization algorithm. 2017 , 52, 771-794	81
1128 Learning backtracking search optimisation algorithm and its application. 2017 , 376, 71-94	48
Intelligent Multiple Search Strategy Cuckoo Algorithm for Numerical and Engineering Optimiza Problems. 2017 , 42, 567-593	tion 12
Improved Alopex-based evolutionary algorithm (AEA) by quadratic interpolation and its applica to kinetic parameter estimations. 2017 , 51, 23-38	tion 16
Testbeds and Research Infrastructures for the Development of Networks and Communities. 20	17 , 1
1124 NEO 2015. 2017 ,	1
The Importance of Proper Diversity Management in Evolutionary Algorithms for Combinatorial Optimization. 2017 , 121-148	1
1122 Evolutionary technique based CAD model for microstrip antenna synthesis. 2017 ,	1
A Modified Differential Evolution With Distance-based Selection for Continuous Optimization in Presence of Noise. 2017 , 5, 26944-26964	n ₂₀
1120 LSHADE Enhancement Using MTS-LS1. 2017 ,	
Optimal Allocation of Multi-DG on Distribution System Reliability and Power Losses Using Differential Evolution Algorithm. 2017 , 141, 512-516	6
	6
Differential Evolution Algorithm. 2017 , 141, 512-516	
Differential Evolution Algorithm. 2017, 141, 512-516 1118 Automated Well Test Analysis Utilizing Self-Adaptive Differential Evolution Method. 2017,	1
Differential Evolution Algorithm. 2017, 141, 512-516 1118 Automated Well Test Analysis Utilizing Self-Adaptive Differential Evolution Method. 2017, 1117 Research on geoacoustic inversion based on Kriging surrogate model. 2017, A New Hyper-Heuristic Based on a Restless Multi-armed Bandit for Multi-objective Optimization	1 n.
Differential Evolution Algorithm. 2017, 141, 512-516 Automated Well Test Analysis Utilizing Self-Adaptive Differential Evolution Method. 2017, Research on geoacoustic inversion based on Kriging surrogate model. 2017, A New Hyper-Heuristic Based on a Restless Multi-armed Bandit for Multi-objective Optimization 2017,	1 n. 7
Differential Evolution Algorithm. 2017, 141, 512-516 Automated Well Test Analysis Utilizing Self-Adaptive Differential Evolution Method. 2017, Research on geoacoustic inversion based on Kriging surrogate model. 2017, A New Hyper-Heuristic Based on a Restless Multi-armed Bandit for Multi-objective Optimization 2017, Design of Piltontroller for buck converter based on improved QPSO. 2017, A self-switching base vector selection mechanism for differential mutation of differential evolutions.	n. 7

1111	Adaptive Multiobjective Differential Evolution Algorithms for Environmental/Economic Dispatch. 2017 ,	1
1110	An adaptive differential evolution with exploitation and exploration by extreme individuals. 2017,	
1109	Optimal reconfiguration and distributed generator allocation in distribution network using an advanced adaptive differential evolution. 2017 ,	5
1108	A classification method based on self-adaptive artificial bee colony. 2017 ,	1
1107	Distance based parameter adaptation for differential evolution. 2017,	10
1106	Influence of control parameters adaptation on spread of positive genomes within populations of selected differential evolution algorithms. 2017 ,	
1105	Performance comparison of differential evolution driving analytic programming for regression. 2017 ,	1
1104	Extending unified differential evolution with a new ensemble of constraint handling techniques. 2017 ,	1
1103	Hybrid Differential Evolution Optimisation for Earth Observation Satellite Scheduling with Time-Dependent Earliness-Tardiness Penalties. 2017 , 2017, 1-10	2
1102	Active cluster replacement algorithm as a tool to assess bifurcation early-warning signs for von Karman equations. 2017 , 6, 51	1
1101	A sine cosine mutation based differential evolution algorithm for solving node location problem. 2017 , 13, 253	8
1100	TRUST-TECH-enhanced differential evolution methodology for box-constrained nonlinear optimisation. 2017 , 10, 1	1
1099	A cross mutation-based differential evolution for data clustering. 2017 , 9, 17	2
1098	Enhancing Differential Evolution with Commensal Learning and Uniform Local Search. 2017, 26, 725-733	18
1097	Applying Instructional APPs and the Cloud Platform to Solve Students' Learning Problems in Core Specialized Courses of Refrigeration and Air Conditioning in Vocational High Schools Under the 12-Year National Fundamental Education System. 2017 ,	
1096	Two-step method for identifying photovoltaic grid-connected inverter controller parameters based on the adaptive differential evolution algorithm. 2017 , 11, 4282-4290	9
1095	Generalized shift-rotation absolute measurement method for high-numerical-aperture spherical surfaces with global optimized wavefront reconstruction algorithm. 2017 , 25, 26133-26147	12
1094	Differential Cloud Particles Evolution Algorithm Based on Data-Driven Mechanism for Applications of ANN. 2017 , 2017, 8469103	

1093	Optimal Decision Fusion for Urban Land-Use/Land-Cover Classification Based on Adaptive Differential Evolution Using Hyperspectral and LiDAR Data. 2017 , 9, 868	34
1092	An Improved Brain-Inspired Emotional Learning Algorithm for Fast Classification. 2017 , 10, 70	19
1091	An Optimized Prediction Intervals Approach for Short Term PV Power Forecasting. 2017, 10, 1669	13
1090	Latest Stored Information Based Adaptive Selection Strategy for Multiobjective Evolutionary Algorithm. 2017 , 2017, 1-20	
1089	Enhancing the Performance of Biogeography-Based Optimization Using Multitopology and Quantitative Orthogonal Learning. 2017 , 2017, 1-23	3
1088	A modified differential evolution-based fuzzy multi-objective approach for clustering. 2017 , 16, 24	3
1087	Differential Evolution with Novel Mutation and Adaptive Crossover Strategies for Solving Large Scale Global Optimization Problems. 2017 , 2017, 1-18	21
1086	Multi-AGV path planning with double-path constraints by using an improved genetic algorithm. 2017 , 12, e0181747	29
1085	Constrained dynamic matrix control based on improved differential evolution algorithm. 2017,	1
1084	Automatic search of reliability function by symbolic regression. 2017,	O
1083	Combined Heat and Power Economic Dispatch Using Differential Evolution. 2017,	1
1082	Brain storm optimization with adaptive search radius for optimization. 2017,	4
1081	Non-Gaussian system identification based on improved estimation of distribution algorithm. 2017,	
1080	Synthetic objective function to improve the performance of DE âllnitial study. 2017 ,	
1079	Logic gate-based evolutionary algorithm for the multidimensional knapsack problem. 2017,	Ο
1078	Multiple Chaos Embedded Gravitational Search Algorithm. 2017 , E100.D, 888-900	27
1077	Particle swarm optimization based networked control system design with uncertainty. 2017, 119, 01051	2
1076	Differential evolution with individual-dependent topology adaptation. 2018 , 450, 1-38	15

1075	A synergy of the sine-cosine algorithm and particle swarm optimizer for improved global optimization and object tracking. 2018 , 43, 1-30	80
1074	Effect of Strategy Adaptation on Differential Evolution in Presence and Absence of Parameter Adaptation: An Investigation. 2018 , 8, 211-235	17
1073	P and T wave detection and delineation of ECG signal using differential evolution (DE) optimization strategy. 2018 , 41, 225-241	13
1072	A+ Evolutionary search algorithm and QR decomposition based rotation invariant crossover operator. 2018 , 103, 49-62	15
1071	A multi-swarm particle swarm optimization algorithm based on dynamical topology and purposeful detecting. 2018 , 67, 126-140	73
1070	Optimization model for construction project resource leveling using a novel modified symbiotic organisms search. 2018 , 19, 625-638	19
1069	Fitness partition-based multi-objective differential evolutionary algorithm and its application to the sodium gluconate fermentation process. 2018 , 177, 8-16	4
1068	An improved differential evolution algorithm using efficient adapted surrogate model for numerical optimization. 2018 , 451-452, 326-347	51
1067	Optimal Design of Gain-Flattened Raman Fiber Amplifiers Using a Hybrid Approach Combining Randomized Neural Networks and Differential Evolution Algorithm. 2018 , 10, 1-15	11
1066	Algorithmic design issues in adaptive differential evolution schemes: Review and taxonomy. 2018 , 43, 284-311	105
1066		105 27
1065	43, 284-311 Differential evolution algorithm with multiple mutation strategies based on roulette wheel	
1065	Differential evolution algorithm with multiple mutation strategies based on roulette wheel selection. 2018 , 48, 3612-3629	27
1065 1064	Differential evolution algorithm with multiple mutation strategies based on roulette wheel selection. 2018, 48, 3612-3629 Automatic estimation of differential evolution parameters using Hidden Markov Models. 2018, 10, 77-93 An improved artificial bee colony algorithm based on elite group guidance and combined	27
1065 1064 1063	Differential evolution algorithm with multiple mutation strategies based on roulette wheel selection. 2018, 48, 3612-3629 Automatic estimation of differential evolution parameters using Hidden Markov Models. 2018, 10, 77-93 An improved artificial bee colony algorithm based on elite group guidance and combined breadth-depth search strategy. 2018, 442-443, 54-71 DE-RCO: Rotating Crossover Operator With Multiangle Searching Strategy for Adaptive Differential	27 5 29
1065 1064 1063 1062	Differential evolution algorithm with multiple mutation strategies based on roulette wheel selection. 2018, 48, 3612-3629 Automatic estimation of differential evolution parameters using Hidden Markov Models. 2018, 10, 77-93 An improved artificial bee colony algorithm based on elite group guidance and combined breadth-depth search strategy. 2018, 442-443, 54-71 DE-RCO: Rotating Crossover Operator With Multiangle Searching Strategy for Adaptive Differential Evolution. 2018, 6, 2970-2983 Quadratic interpolation based teaching-learning-based optimization for chemical dynamic system	27 5 29
1065 1064 1063 1062	Differential evolution algorithm with multiple mutation strategies based on roulette wheel selection. 2018, 48, 3612-3629 Automatic estimation of differential evolution parameters using Hidden Markov Models. 2018, 10, 77-93 An improved artificial bee colony algorithm based on elite group guidance and combined breadth-depth search strategy. 2018, 442-443, 54-71 DE-RCO: Rotating Crossover Operator With Multiangle Searching Strategy for Adaptive Differential Evolution. 2018, 6, 2970-2983 Quadratic interpolation based teaching-learning-based optimization for chemical dynamic system optimization. 2018, 145, 250-263	27 5 29 19 38

1057 Community detection in complex networks by using membrane algorith	nm. 2018 , 29, 1850003
Development of New Permeability Formulation From Well Log Data Usi Approaches. 2018 , 140,	ng Artificial Intelligence 46
Particle Swarm Optimization Algorithm With Intelligent Particle Number Design of Electric Machines. 2018 , 65, 1791-1798	er Control for Optimal 67
1054 Phase Fault Protection Scheme for Reliable Operation of Microgrids. 20	26 26 26
A hybrid modified differential evolution-pattern search approach for SS controller design under communication constraints. 2018 , 9, 962-971	SC based damping 3
1052 Differential evolution with subpopulations for high-dimensional seismic	inversion. 2018 , 66, 1060-1069 ₂
Distance-dependent parameter adaption for multi-objective evolutiona decomposition. 2018 , 22, 6845-6859	ry algorithm based on
Optimal Operation of a Multi Source Multi Delivery Natural Gas Transmi 2018, 13,	ission Pipeline Network. 5
1049 Multiobjective optimization of a gas pipeline network: an ant colony app	proach. 2018 , 8, 1389-1400 12
A self-adaptive evolutionary weighted extreme learning machine for bir ${f 2018}, 7, 95-118$	nary imbalance learning. 4
Differential Evolution with Parameter Adaptation Strategy to Economic Wind. 2018 , 153-165	Dispatch Incorporating 4
Optimal placement of TCSC and SVC for reactive power planning using algorithm. 2018 , 40, 131-143	Whale optimization 78
1045 Energy-Aware Multi-objective Differential Evolution in Cloud Computing	g. 2018 , 433-443
Enhancing the performance of differential evolution with covariance ma 64, 227-243	atrix self-adaptation. 2018 ,
1043 Solving Nonlinear Optimization Problems Using IUMDE Algorithm. 2018	3, 245-254 2
SQG-Differential Evolution for Difficult Optimization Problems under a Budget. 2018 , 322-336	Tight Function Evaluation 4
Differential evolution with adaptive trial vector generation strategy and feasibility rule for constrained optimization. 2018 , 435, 240-262	d cluster-replacement-based 32
Solving the dynamic economic dispatch by a memory-based global diffe repair technique of constraint handling. 2018 , 147, 59-80	rential evolution and a 46

1039	Bio-inspired optimization algorithms applied to rectenna design. 2018, 3,	4
1038	Identification of the critical depth-of-cut through a 2D image of the cutting region resulting from taper cutting of brittle materials. 2018 , 29, 055003	5
1037	Across Neighborhood Search algorithm: A comprehensive analysis. 2018 , 435, 334-381	3
1036	An adaptive multi-population differential artificial bee colony algorithm for many-objective service composition in cloud manufacturing. 2018 , 456, 50-82	65
1035	A new self-adjusting PI controller for power control in a wind turbine generator. 2018 , 15, 362-372	3
1034	Ensemble Shuffled Population Algorithm for multi-objective thermal design optimization of a plate frame heat exchanger operated with Al 2 O 3 /water nanofluid. 2018 , 69, 250-269	5
1033	Opposition-Based Hybrid Strategy for Particle Swarm Optimization in Noisy Environments. 2018 , 6, 21888-21	9 04 0
1032	On the Automatic Design of a Representation for Grammar-Based Genetic Programming. 2018 , 101-117	3
1031	Information fusion in offspring generation: A case study in DE and EDA. 2018, 42, 99-108	14
1030	A Novel Closed-Form Expression Obtained by Using Differential Evolution Algorithm to Calculate Pull-In Voltage of MEMS Cantilever. 2018 , 27, 392-397	7
1029	Planning the coordination of overcurrent relays for distribution systems considering network reconfiguration and load restoration. 2018 , 12, 1672-1679	12
1028	Genetic Programming. 2018,	1
1027	An advanced approach for optimal wind power generation prediction intervals by using self-adaptive evolutionary extreme learning machine. 2018 , 126, 254-269	53
1026	Adaptive harmony search with best-based search strategy. 2018 , 22, 1335-1349	20
1025	ssFPA/DE: an efficient hybrid differential evolutionâflower pollination algorithm based approach. 2018 , 9, 216-229	3
1024	Constrained cohort intelligence using static and dynamic penalty function approach for mechanical components design. 2018 , 33, 570-588	19
1023	Self-adaptive differential evolution algorithm with hybrid mutation operator for parameters identification of PMSM. 2018 , 22, 1263-1285	15
1022	A hybrid differential evolution algorithm with estimation of distribution algorithm for reentrant hybrid flow shop scheduling problem. 2018 , 30, 193-209	20

1021	Adaptive neural model optimized by modified differential evolution for identifying 5-DOF robot manipulator dynamic system. 2018 , 22, 979-988	8
1020	Fractional-order PID controller tuning using continuous state transition algorithm. 2018 , 29, 795-804	36
1019	Social learning differential evolution. 2018 , 433-434, 464-509	23
1018	Fuzzy adaptive teachingâlearning-based optimization for global numerical optimization. 2018, 29, 309-327	19
1017	A comprehensive study of cuckoo-inspired algorithms. 2018 , 29, 345-361	30
1016	A novel modified differential evolution algorithm optimized fuzzy proportional integral derivative controller for load frequency control with thyristor controlled series compensator. 2018 , 5, 944-963	20
1015	Multiobjective Programming for Type-2 Hierarchical Fuzzy Inference Trees. 2018, 26, 915-936	11
1014	Random Controlled Pool base Differential Evolution algorithm (RCPDE). 2018 , 24, 377-390	
1013	Differential evolution with individual-dependent and dynamic parameter adjustment. 2018 , 22, 5747-5773	16
1012	A neural differential evolution identification approach to nonlinear systems and modelling of shape memory alloy actuator. 2018 , 20, 57-70	11
1011	A novel differential evolution algorithm for solving constrained engineering optimization problems. 2018 , 29, 659-692	74
1010	Recognition of noise source in multi sounds field by modified random localized based DE algorithm. 2018 , 9, 245-261	4
1009	B-spline collocation and self-adapting differential evolution (jDE) algorithm for a singularly perturbed convectionadiffusion problem. 2018 , 22, 2683-2693	5
1008	A new hybrid matheuristic optimization algorithm for solving design and network engineering problems. 2018 , 13, 11-19	5
1007	Optimal probabilistic encryption for distributed detection in wireless sensor networks based on immune differential evolution algorithm. 2018 , 24, 2497-2507	5
1006	Self-adaptive differential evolution algorithm with improved mutation strategy. 2018 , 22, 3433-3447	32
1005	An improved binary differential evolution algorithm for optimizing PWM control laws of power inverters. 2018 , 19, 271-296	8
1004	A new differential evolution algorithm for solving multimodal optimization problems with high dimensionality. 2018 , 22, 4361-4388	4

1003	Knowledge based differential evolution for cloud computing service composition. 2018, 9, 565-574	18
1002	A novel differential evolution algorithm with a self-adaptation parameter control method by differential evolution. 2018 , 22, 6171-6190	12
1001	Optimization of bump and blowing to control the flow through a transonic compressor blade cascade. 2018 , 28, 285-297	4
1000	Weibull-based scaled-differences schema for Differential Evolution. 2018 , 38, 79-93	7
999	Modified multiple search cooperative foraging strategy for improved artificial bee colony optimization with robustness analysis. 2018 , 22, 6371-6394	17
998	A sophisticated PSO based on multi-level adaptation and purposeful detection. 2018 , 22, 2603-2618	7
997	DABE: Differential evolution in analogy-based software development effort estimation. 2018 , 38, 158-172	34
996	Teachingâlearning-based optimization with differential and repulsion learning for global optimization and nonlinear modeling. 2018 , 22, 7177-7205	4
995	Optimization techniques for identifying soil parameters in geotechnical engineering: Comparative study and enhancement. 2018 , 42, 70-94	173
994	Enhancing differential evolution with random neighbors based strategy. 2018 , 26, 501-511	33
993	Some metaheuristics should be simplified. 2018 , 427, 32-62	41
992	Data decomposition based fast reduced kernel extreme learning machine for currency exchange rate forecasting and trend analysis. 2018 , 96, 427-449	18
991	Ensemble of differential evolution variants. 2018 , 423, 172-186	207
990	Evolutionary computation algorithms for feature selection of EEG-based emotion recognition using mobile sensors. 2018 , 93, 143-155	106
989	A hyper-heuristic approach to automated generation of mutation operators for evolutionary programming. 2018 , 62, 162-175	23
988	Auto-selection mechanism of differential evolution algorithm variants and its application. 2018 , 270, 636-653	24
987	An adaptive hybrid evolutionary firefly algorithm for shape and size optimization of truss structures with frequency constraints. 2018 , 195, 99-112	98
986	Tackling global optimization problems with a novel algorithm âlMouth Brooding Fish algorithm. 2018 , 62, 987-1002	45

985	Modified progressive random walk with chaotic PRNG. 2018 , 33, 450-459	1
984	Cooperative Coevolution with Formula-Based Variable Grouping for Large-Scale Global Optimization. 2018 , 26, 569-596	22
983	Enhancing differential evolution with interactive information. 2018 , 22, 7919-7938	7
982	Adaptive multiple-elites-guided composite differential evolution algorithm with a shift mechanism. 2018 , 422, 122-143	56
981	A new hybrid differential evolution algorithm with self-adaptation for function optimization. 2018 , 48, 1657-1671	19
980	An improved artificial bee colony algorithm based on the gravity model. 2018 , 429, 49-71	47
979	An adaptive immune-inspired multi-objective algorithm with multiple differential evolution strategies. 2018 , 430-431, 46-64	40
978	Study of AGC in Two-Area Hydro-thermal Power System. 2018 , 393-401	5
977	On CS Image Reconstruction Using LDPC Code Over Radio Mobile Channel. 2018 , 100, 401-427	
976	A highly accurate differential evolutionaparticle swarm optimization algorithm for the construction of initial value problem solvers. 2018 , 50, 1364-1379	14
975	A set of new compact firefly algorithms. 2018 , 40, 92-115	31
974	Modified clustering-based differential evolution with a flexible combination of exploration and exploitation. 2018 , 22, 6087-6098	3
973	Dynamic optimization in binary search spaces via weighted superposition attraction algorithm. 2018 , 96, 157-174	17
972	A Comparative Study of Eighteen Self-adaptive Metaheuristic Algorithms for Truss Sizing Optimisation. 2018 , 22, 2982-2993	11
971	Hybrid Hierarchical Backtracking Search Optimization Algorithm and Its Application. 2018, 43, 993-1014	5
970	Population topologies for particle swarm optimization and differential evolution. 2018 , 39, 24-35	91
969	Optimal power flow solutions using differential evolution algorithm integrated with effective constraint handling techniques. 2018 , 68, 81-100	115
968	Differential Evolution for Constrained Industrial Optimization. 2018 , 123-132	

967	Parameters with Adaptive Learning Mechanism (PALM) for the enhancement of Differential Evolution. 2018 , 141, 92-112	64
966	On the selection of solutions for mutation in differential evolution. 2018 , 12, 297-315	21
965	A cloud model based DNA genetic algorithm for numerical optimization problems. 2018 , 81, 465-477	31
964	Adaptation of operators and continuous control parameters in differential evolution for constrained optimization. 2018 , 22, 6595-6616	11
963	Real-parameter unconstrained optimization based on enhanced fitness-adaptive differential evolution algorithm with novel mutation. 2018 , 22, 3215-3235	89
962	Stabilization of a Reduced Order Inverted Pendulum by Using Whale Optimization Algorithm. 2018,	
961	An Improved Biogeography-Based Optimization Algorithm. 2018,	
960	An Effective Soft-Sensor Method Based on Belief-Rule-Base and Differential Evolution for Tipping Paper Permeability Measurement. 2018 , 2018, 1-14	1
959	A Vector Grouping Learning Brain Storm Optimization Algorithm for Global Optimization Problems. 2018 , 6, 78193-78213	11
958	An Algorithm to Manage Transportation Logistics That Considers Sabotage Risk. 2018 , 8, 39	4
957	U-Shaped Assembly Line Balancing by Using Differential Evolution Algorithm. 2018, 23, 79	2
956	An Improved Differential Evolution Algorithm for Crop Planning in the Northeastern Region of Thailand. 2018 , 23, 40	5
955	Differential Evolution Algorithm for Multilevel Assignment Problem: A Case Study in Chicken Transportation. 2018 , 23, 55	3
954	Empirical Investigations Into the Composite Differential Evolution on CEC 2017 Constrained Optimization Problems. 2018 ,	1
953	Empirical Evidences to Validate the Performance of Self-Switching Base Vector Based Mutation of Differential Evolution Algorithm. 2018 ,	2
952	Visual Tracking with Breeding Fireflies using Brightness from Background-Foreground Information. 2018 ,	3
951	Optimal Power Flow Solutions Using Algorithm Success History Based Adaptive Differential Evolution with Linear Population Reduction. 2018 ,	2
950	Automatic clustering by elitism-based multi-objective differential evolution. 2018 , 17, 50	3

949	Dynamic Differential Evolution Algorithm Applied in Point Cloud Registration. 2018, 428, 012032	3
948	Table of contents. 2018,	
947	Analysing knowledge transfer in SHADE via complex network. 2018 ,	
946	A Framework of an Intelligent Recommendation System for Particle Swarm Optimization Based on Meta-learning. 2018 ,	
945	A New Binomial Crossover Considering Correlation Among Decision Variables for Adaptive Differential Evolution. 2018 ,	
944	Asynchronous Differential Evolution with Strategy Adaptation for Global Numerical Optimization. 2018 ,	3
943	An alternative view for incorporating more scaled differences to differential evolution. 2018,	
942	A Switched Parameter Differential Evolution with Multi-donor Mutation and Annealing Based Local Search for Optimization of Lennard-Jones Atomic Clusters. 2018 ,	3
941	A Fast Memetic Multi-Objective Differential Evolution for Multi-Tasking Optimization. 2018,	9
940	Solving the Global Trajectory Optimization Problem with Archive-Based Differential Evolution. 2018 ,	
939	Differential Evolution Algorithm Aided Turbo Channel Estimation and Multi-User Detection for G.Fast Systems in the Presence of FEXT. 2018 , 6, 33111-33128	5
938	Adaptive Differential Evolution Based on Simulated Annealing for Large-Scale Dynamic Economic Dispatch with Valve-Point Effects. 2018 , 2018, 1-16	3
937	Predicting the Evolution of Hot Topics: A Solution Based on the Online Opinion Dynamics Model in Social Network. 2018 , 1-13	11
936	A Dynamic Generalized Opposition-Based Learning Fruit Fly Algorithm for Function Optimization. 2018 ,	1
935	A Differential-Based Harmony Search Algorithm With Variable Neighborhood Search for Job Shop Scheduling Problem and Its Runtime Analysis. 2018 , 6, 76313-76330	13
934	Landscape-Based Differential Evolution for Constrained Optimization Problems. 2018,	5
933	Improved United Multi-Operator Algorithm for Solving Optimization Problems. 2018,	6
932	Enhancing Adaptive Differential Evolution Algorithms with Rank-Based Mutation Adaptation. 2018,	2

931 Active and Reactive Power PSCOPF for Mixed AC- HVDC-Systems. **2018**,

930	MPADE: An Improved Adaptive Multi-Population Differential Evolution Algorithm Based on JADE. 2018 ,	1
929	Pseudo-derivative evolutionary algorithm and convergence analysis. 2018, 09, 1850041	
928	A novel adaptive butterfly optimization algorithm. 2018 , 07, 1850026	9
927	Computational Intelligence in Sports: A Systematic Literature Review. 2018 , 2018, 1-13	7
926	A Self-Adapted Across Neighborhood Search Algorithm With Variable Reduction Strategy for Solving Non-Convex Static and Dynamic Economic Dispatch Problems. 2018 , 6, 41314-41324	7
925	SHADE with Iterative Local Search for Large-Scale Global Optimization. 2018,	26
924	Supervised Data Synthesizing and Evolving âlʿA Framework for Real-World Traffic Crash Severity Classification. 2018 ,	4
923	State-of-the-Art Differential Evolution Algorithms Selection and Modifications for Difficult Functions. 2018 , 6, 76586-76595	3
922	Selection Based on Colony Fitness for Differential Evolution. 2018 , 6, 78333-78341	1
921	A Chaotic Artificial Bee Colony Algorithm Based on Lvy Search. 2018 , E101.A, 2472-2476	4
920	A self-feedback strategy differential evolution with fitness landscape analysis. 2018 , 22, 7773-7785	9
919	Differential Evolution with Proximity-Based Replacement Strategy and Elite Archive Mechanism for Global Optimization. 2018 , 76-89	
918	A Phase-Based Adaptive Differential Evolution Algorithm for the Economic Load Dispatch Considering Valve-Point Effects and Transmission Losses. 2018 , 2018, 1-24	2
917	A Double Evolutionary Learning Moth-Flame Optimization for Real-Parameter Global Optimization Problems. 2018 , 6, 76700-76727	28
916	Intelligent selection of parents for mutation in differential evolution. 2018 , 17, 133	1
915	An enhanced utilization mechanism of population information for Differential evolution. 2018, 1	1
914	Real Time Determination of Rheological Properties of Spud Drilling Fluids Using a Hybrid Artificial Intelligence Technique. 2018 ,	9

913	Research on Fault Diagnosis of a Marine Fuel System Based on the SaDE-ELM Algorithm. 2018, 11, 82	7
912	A Hybrid Differential Evolution Algorithm for Real World Problems. 2018,	Ο
911	Learning from Imbalanced Data Sets. 2018 ,	198
910	Imbalanced Classification with Multiple Classes. 2018 , 197-226	O
909	An Evolutionary Computation Based Feature Selection Method for Intrusion Detection. 2018, 2018, 1-10	17
908	Effect of Different Optimization Methods in Determining the Clusterheads in Wireless Sensor Network. 2018 ,	
907	A Performance Comparison of Crossover Variations in Differential Evolution for Training Multi-layer Perceptron Neural Networks. 2018 , 477-488	2
906	Evolutionary Algorithms. 2018 , 279-295	
905	Improved Cuckoo Search with Better Search Capabilities for Solving CEC2017 Benchmark Problems. 2018 ,	13
904	Accelerating Protein Structure Prediction Using Active Learning and Surrogate-Based Optimization. 2018 ,	
903	Length Scale-Based Differential Evolution. 2018,	1
902	Optimisation inspiring from behaviour of raining in nature: droplet optimisation algorithm. 2018 , 12, 152	15
901	Well-Placement Optimization in a Novel Heavy Oil Recovery Process Using In-Situ Steam Generated by Thermochemicals. 2018 ,	
900	Small signal stability analysis and optimised control of a PMSG-based wind turbine using differential evolution. 2018 , 29, 64	4
899	Enhanced differential evolution with modified parent selection technique for numerical optimisation. 2018 , 17, 98	
898	Synergistic fibroblast optimization: a novel nature-inspired computing algorithm. 2018 , 19, 815-833	11
897	Optimal Allocation Model for EV Charging Stations Coordinating Investor and User Benefits. 2018 , 6, 36039-36049	22
896	Large-Scale Evolutionary Optimization Using Multi-Layer Strategy Differential Evolution. 2018, 45-55	

895	On Tenfold Execution Time in Real World Optimization Problems with Differential Evolution in Perspective of Algorithm Design. 2018 ,	6
894	Long Short Term Memory Hyperparameter Optimization for a Neural Network Based Emotion Recognition Framework. 2018 , 6, 49325-49338	50
893	A novel multi-objective co-evolutionary algorithm based on decomposition approach. 2018 , 73, 50-66	9
892	Fast and accurate parameter extraction for different types of fuel cells with decomposition and nature-inspired optimization method. 2018 , 174, 913-921	24
891	Forecasting of Power Grid Investment in China Based on Support Vector Machine Optimized by Differential Evolution Algorithm and Grey Wolf Optimization Algorithm. 2018 , 8, 636	24
890	Curvature-Constrained UAV Path Planning in Tracking a Moving Air Target. 2018 ,	
889	A Novel Ternary Half Adder & One Bit MultiplierCircuits based on Emerging sub-32nm FET Technology. 2018 ,	0
888	Comparative Analysis on Image Retrieval Technique using Machine Learning. 2018,	1
887	Development and experimental evaluation of a vision system for detecting defects of stator windings in induction motor assembly lines. 2018 ,	1
886	iCAST 2018 Committee. 2018 ,	
885	Identification of Multichannel AR Models with Additive Noise: a Frisch Scheme Approach. 2018,	2
88 ₅	Identification of Multichannel AR Models with Additive Noise: a Frisch Scheme Approach. 2018, An Adaptive Differential Evolution Algorithm Based on Fuzzy Modeling. 2018,	2
		2
884	An Adaptive Differential Evolution Algorithm Based on Fuzzy Modeling. 2018 ,	2
884	An Adaptive Differential Evolution Algorithm Based on Fuzzy Modeling. 2018, Hybrid Solar And Wind Powered Electric Vehicle Using Sepic Converter. 2018,	2
884 883 882	An Adaptive Differential Evolution Algorithm Based on Fuzzy Modeling. 2018, Hybrid Solar And Wind Powered Electric Vehicle Using Sepic Converter. 2018, Effect of Antisolvent Method on the Performance of HOIP based Memristive Devices. 2018,	2
884 883 882	An Adaptive Differential Evolution Algorithm Based on Fuzzy Modeling. 2018, Hybrid Solar And Wind Powered Electric Vehicle Using Sepic Converter. 2018, Effect of Antisolvent Method on the Performance of HOIP based Memristive Devices. 2018, IEEE Computer Society. 2018, 33, C3-C3	2

(2018-2018)

877	biogeography-based optimization and differential evolution methods. 2018 , 27, e1495	20
876	Formation establishment for GEO satellite beams monitoring using controlled regressive orbits. 2018 , 150, 213-222	2
875	Computing in Medical Image Analysis. 2018 , 3-11	12
874	Modified adaptive differential evolution based optimal operation and security of AC-DC microgrid systems. 2018 , 103, 185-202	11
873	QUasi-Affine TRansformation Evolution with External ARchive (QUATRE-EAR): An enhanced structure for Differential Evolution. 2018 , 155, 35-53	63
872	Neighbour teaching learning based optimization for global optimization problems. 2018 , 34, 1583-1594	12
871	A Systematic Optimization Design Method for Complex Mechatronic Products Design and Development. 2018 , 2018, 1-14	3
870	Enhanced Hybrid Differential Evolution for Earth-Moon Low-Energy Transfer Trajectory Optimization. 2018 , 2018, 1-17	
869	Automated Test Case Generation Based on Differential Evolution With Relationship Matrix for iFogSim Toolkit. 2018 , 14, 5005-5016	15
868	ASBSO: An Improved Brain Storm Optimization With Flexible Search Length and Memory-Based Selection. 2018 , 6, 36977-36994	24
867	An improved differential evolution algorithm for artificial neural networks. 2018,	
866	Gaussian Cauchy Differential Evolution for Global Optimization. 2018 , 166-182	
865	Design and analysis of a novel piezoelectrically actuated vibration assisted rotation cutting system. 2018 , 27, 095020	12
864	Optimal components selection for active filter design with average differential evolution algorithm. 2018 , 94, 293-302	9
863	Multiobjective optimization with ?-constrained method for solving real-parameter constrained optimization problems. 2018 , 467, 15-34	11
862	Self-adaptive differential evolution with a novel adaptation technique and its application to optimize ES-SAGD recovery process. 2018 , 118, 64-76	12
861	A gene-level hybrid search framework for multiobjective evolutionary optimization. 2018, 30, 759-773	4
860	Spectral Kurtosis Entropy and Weighted SaE-ELM for Bogie Fault Diagnosis under Variable Conditions. 2018 , 18,	12

859	Energy Consumption Prediction of a Greenhouse and Optimization of Daily Average Temperature. 2018 , 11, 65	50
858	Modified Differential Evolution Algorithm: A Novel Approach to Optimize the Operation of Hydrothermal Power Systems while Considering the Different Constraints and Valve Point Loading Effects. 2018 , 11, 540	18
857	Multiobjective Optimization for a Wireless Ad Hoc Sensor Distribution on Shaped-Bounded Areas. 2018 , 2018, 1-22	5
856	Bounded relative motions for formation flying in displaced orbits by low-thrust propulsion. 2018 , 130, 1	3
855	Long-Term Scheduling of Large-Scale Cascade Hydropower Stations Using Improved Differential Evolution Algorithm. 2018 , 10, 383	13
854	Performance and robustness of optimal fractional fuzzy PID controllers for pitch control of a wind turbine using chaotic optimization algorithms. 2018 , 79, 27-44	55
853	Optimal Weighted Extreme Learning Machine for Imbalanced Learning with Differential Evolution [Research Frontier]. 2018 , 13, 32-47	4
852	Application of optimization algorithms to generation expansion planning problem. 2018 , 35, 1387-1398	11
851	Enhancing the Performance of JADE Using Two-phase Parameter Control Scheme and Its Application. 2018 , 15, 462-473	
850	A stochastic mid-term scheduling for integrated wind-thermal systems using self-adaptive optimization approach: A comparative study. 2018 , 155, 552-564	8
849	Binary Moth Search Algorithm for Discounted {0-1} Knapsack Problem. 2018, 6, 10708-10719	74
848	Self-adaptive differential evolutionary extreme learning machines for long-term solar radiation prediction with remotely-sensed MODIS satellite and Reanalysis atmospheric products in solar-rich cities. 2018 , 212, 176-198	51
847	A multi-objective memetic algorithm for low rank and sparse matrix decomposition. 2018 , 468, 172-192	7
846	Improved Firefly Algorithm: A Novel Method for Optimal Operation of Thermal Generating Units. 2018 , 2018, 1-23	20
845	On the hybridization of global and local search methods. 2018 , 35, 3451-3464	7
844	Differential Evolution and Analytic Programming in the case of Trigonometric Identities Discovery. 2018 ,	
843	Modeling NOx emission of coal-fired boiler with differential evolution optimized least square support vector machine. 2018 ,	1
842	Differential Evolution Algorithm With Tracking Mechanism and Backtracking Mechanism. 2018 , 6, 44252-442	6711

841	Hybrid model for renewable energy and loads prediction based on data mining and variational mode decomposition. 2018 , 12, 2642-2649	18
840	Cellular Artificial Bee Colony algorithm with Gaussian distribution. 2018 , 462, 374-401	18
839	Compact real-valued teaching-learning based optimization with the applications to neural network training. 2018 , 159, 51-62	35
838	An Overview on the Application of Self-Adaptive Differential Evolution. 2018,	1
837	Colour image encryption technique using differential evolution in non-subsampled contourlet transform domain. 2018 , 12, 1273-1283	30
836	Natural selection methods for artificial bee colony with new versions of onlooker bee. 2019 , 23, 6455-6494	33
835	A random perturbation modified differential evolution algorithm for unconstrained optimization problems. 2019 , 23, 6307-6321	3
834	Deterministic Parameter Control in Differential Evolution with Combined Variants for Constrained Search Spaces. 2019 , 3-28	
833	A sequential algorithm portfolio approach for black box optimization. 2019 , 44, 559-570	8
832	Global genetic learning particle swarm optimization with diversity enhancement by ring topology. 2019 , 44, 571-583	49
831	Artificial Bee Colony Algorithm Based on Novel Mechanism for Fuzzy Portfolio Selection. 2019 , 27, 966-978	22
830	Fault Diagnosis Inverse Problems: Solution with Metaheuristics. 2019,	5
829	Selecting evolutionary algorithms for black box design optimization problems. 2019 , 23, 6511-6531	8
828	Differential Evolution: A survey of theoretical analyses. 2019 , 44, 546-558	132
827	Best neighbor-guided artificial bee colony algorithm for continuous optimization problems. 2019 , 23, 8723-8740	31
826	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. 2019 , 50, 100428	18
825	Quantum firefly swarms for multimodal dynamic optimization problems. 2019 , 115, 189-199	37
824	Historical and Heuristic-Based Adaptive Differential Evolution. 2019 , 49, 2623-2635	40

823	Model predictive path following control for autonomous cars considering a measurable disturbance: Implementation, testing, and verification. 2019 , 118, 41-60	81
822	A Statistical Study on Parameter Selection of Operators in Continuous State Transition Algorithm. 2019 , 49, 3722-3730	33
821	Modeling and simulation of improved artificial bee colony algorithm with data-driven optimization. 2019 , 93, 305-321	7
820	Designing automatically a representation for grammatical evolution. 2019 , 20, 37-65	1
819	A covariance matrix adaptation evolution strategy variant and its engineering application. 2019 , 83, 105680	7
818	The 100-Digit Challenge: Algorithm jDE100. 2019 ,	23
817	Cooperative Optimization Algorithm for the 100-Digit Challenge. 2019 ,	
816	Multipopulation Optimization for Multitask Optimization. 2019,	6
815	A Two-Stage Ensemble of Differential Evolution Variants for Numerical Optimization. 2019 , 7, 56504-56519	7
814	Differential evolution with dynamic neighbourhood learning strategy-based mutation operators. 2019 , 19, 140	1
813	Two-dimensional Photoelectric Compensation based on BP Neural Network. 2019,	
812	Restart based Collective Information Powered Differential Evolution for Solving the 100-Digit Challenge on Single Objective Numerical Optimization. 2019 ,	3
811	A Discrete Improved Artificial Bee Colony Algorithm for 0âll Knapsack Problem. 2019 , 7, 104982-104991	12
810	Multi-objective flow shop scheduling with limited buffers using hybrid self-adaptive differential evolution. 2019 , 11, 407-422	15
809	Impacts of Linnik Flight Usage Patterns on Cuckoo Search for Real-Parameter Global Optimization Problems. 2019 , 7, 83932-83961	2
808	NBBO: A new variant of biogeography-based optimization with a novel framework and a two-phase migration operator. 2019 , 504, 178-201	6
807	Study on guaranteed output constraints in the long term joint optimal scheduling for the hydropower station group. 2019 , 185, 1210-1224	10
806	Estimating neuronal conductance model parameters using dynamic action potential clamp. 2019 , 325, 108326	

805	Differential Evolution in Wireless Communications: A Review. 2019 , 15, 29	1
804	Vessel Trajectory Prediction Model Based on AIS Sensor Data and Adaptive Chaos Differential Evolution Support Vector Regression (ACDE-SVR). 2019 , 9, 2983	17
803	An efficient fitness-based differential evolution algorithm and a constraint handling technique for dynamic economic emission dispatch. 2019 , 186, 115801	28
802	Multi-objective Optimization Algorithms. 2019 , 39-72	
801	Artificial search agents with cognitive intelligence for binary optimization problems. 2019, 136, 18-30	25
800	Enhancing the Local Search Ability of the Brain Storm Optimization Algorithm by Covariance Matrix Adaptation. 2019 , 105-122	1
799	Simultaneous identification of structural stiffness and mass parameters based on Bare-bones Gaussian Tree Seeds Algorithm using time-domain data. 2019 , 83, 105602	12
798	Mobile robots and evolutionary optimization algorithms for green supply chain management in a used-car resale company. 2021 , 23, 9110-9138	9
797	Ensemble mutation-driven salp swarm algorithm with restart mechanism: Framework and fundamental analysis. 2021 , 165, 113897	34
796	Metaheuristic searching genetic algorithm based reliability assessment of hybrid power generation system. 2021 , 39, 488-501	8
795	Double-layer-clustering differential evolution multimodal optimization by speciation and self-adaptive strategies. 2021 , 545, 465-486	24
794	Differential evolution algorithm with fitness and diversity ranking-based mutation operator. 2021 , 61, 100816	16
793	Chaos-assisted multi-population salp swarm algorithms: Framework and case studies. 2021 , 168, 114369	11
792	A fitness-based adaptive differential evolution algorithm. 2021 , 549, 116-141	14
791	A novel mutation strategy selection mechanism for differential evolution based on local fitness landscape. 2021 , 77, 5726-5756	O
790	Application of differential evolution to multi-objective tuning of vibration spectrum analyzers based on microelectromechanical systems. 2021 , 97, 104071	3
7 ⁸ 9	Fitness distance correlation and mixed search strategy for differential evolution. 2021, 458, 514-525	10
788	Multi-objective optimization using self-organizing decomposition and its application to crashworthiness design. 2021 , 101, 107002	5

Heuristics for Optimization and Learning. **2021**,

786	Differential evolution with adaptive mutation strategy based on fitness landscape analysis. 2021 , 549, 142-163	21
785	Moth Swarm Algorithm for Image Contrast Enhancement. 2021 , 212, 106607	9
784	A Differential Evolution Algorithm With Adaptive Niching and K-Means Operation for Data Clustering. 2020 , PP,	1
783	QMCube (QM): An all-purpose suite for multiscale QM/MM calculations. 2021, 42, 447-457	3
782	L-SHADE-E: Ensemble of two differential evolution algorithms originating from L-SHADE. 2021 , 552, 201-219	8
781	Differential evolution algorithm with multi-population cooperation and multi-strategy integration. 2021 , 421, 285-302	16
780	Non-negative differential evolution for particle sizing from ultrasonic attenuation spectroscopy. 2021 , 378, 602-617	3
779	Economic-statistical design of adaptive arma control chart for autocorrelated data. 2021, 91, 623-647	3
778	JDF-DE: a differential evolution with Jrand number decreasing mechanism and feedback guide technique for global numerical optimization. 2021 , 51, 359-376	4
777	An Elite Gene Guided Reproduction Operator for Many-Objective Optimization. 2021, 51, 765-778	7
776	An efficient binary differential evolution algorithm for the multidimensional knapsack problem. 2021 , 37, 745-761	2
775	A Self-Adaptive Differential Evolution Algorithm for Scheduling a Single Batch-Processing Machine With Arbitrary Job Sizes and Release Times. 2021 , 51, 1430-1442	45
774	Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. 2021 , 51, 3954-3967	68
773	An innovative hybrid algorithm for bound-unconstrained optimization problems and applications. 1	1
772	Learning Automata for Behavior Control in Evolutionary Computation. 2021 , 127-157	
771	Data Collection Task Planning of a Fixed-Wing Unmanned Aerial Vehicle in Forest Fire Monitoring. 2021 , 9, 109847-109864	7
770	An Adaptive Multi-Strategy Artificial Bee Colony Algorithm for Integrated Process Planning and Scheduling. 2021 , 9, 65622-65637	2

769	Variable Fragments Evolution in Differential Evolution. 2021, 358-367	
768	A hybrid optimizer based on backtracking search and differential evolution for continuous optimization. 1-31	1
767	Optimization in Autonomic Computing and Resource Management. 2021, 159-175	0
766	A Differential Evolution-Based Consistency Improvement Method in AHP With an Optimal Allocation of Information Granularity. 2020 , PP,	2
765	Environmental Adaption Method. 2021 , 300-327	
764	Heterogeneous Differential Evolution Algorithm for Parameter Estimation of Solar Photovoltaic Models.	
763	Research of Deep Learning Neural Network Based on Regression Analysis in Numerical Simulation Analysis of Motor Stress. 2021 , 541-550	
762	Self-regulated differential evolution for real parameter optimization. 2021 , 51, 5873-5897	1
761	A Self-Adaptive Differential Evolution Algorithm Using Oppositional Solutions and Elitist Sharing. 2021 , 9, 20035-20050	2
760	Comparative Analysis Among Five Stochastic Search-Based Optimization Algorithms. 2021 , 369-380	
759	Novel Random Key Encoding Schemes for the Differential Evolution of Permutation Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	2
758	Parallel Equilibrium Optimizer Algorithm and its application in Capacitated Vehicle Routing Problem. 2021 , 27, 233-247	7
757	Analysis of Intelligent Controllers for Juice Flow Process in a Sugar Industry. 2021 , 81-90	
756	Hopping Spider Monkey Optimization. 2021 , 783-797	
755	Empirical distribution-based framework for improving multi-parent crossover algorithms. 2021 , 25, 4799-4822	1
754	Differential Evolution. 2021 , 101-109	
753	IADE: An Improved Differential Evolution Algorithm to Preserve Sustainability in a 6G Network. 2021 , 1-1	1

Utilizing Differential Evolution into Optimizing Targeted Cancer Treatments. **2021**, 328-340

75 ¹	Self-adaptive differential evolution applied to combustion engine calibration. 2021 , 25, 109-135	3
750	Hybrid Evolutionary-based Sparse Channel Estimation for IRS-assisted mmWave MIMO Systems. 2021 , 1-1	9
749	A framework for designing of genetic operators automatically based on gene expression programming and differential evolution. 2021 , 20, 395-411	1
748	A Transformer Fault Diagnosis Method Based on Parameters Optimization of Hybrid Kernel Extreme Learning Machine. 2021 , 9, 126891-126902	5
747	Question Selection in Template-Based Test Paper Models. 2021 , 52-82	
746	An adaptive regeneration framework based on search space adjustment for differential evolution. 2021 , 33, 9503-9519	35
745	An Automatic Weak Learner Formulation for Lithium-ion Battery State of Health Estimation. 2021, 1-1	13
744	An improved differential evolution algorithm and its application in optimization problem. 2021 , 25, 5277-529	98 72
743	Adaptive Range Composite Differential Evolution for Fast Optimal Reactive Power Dispatch. 2021 , 9, 20117-20126	7
742	Solving nonlinear equation systems via clustering-based adaptive speciation differential evolution. 2021 , 18, 6034-6065	1
741	Improving the Performance of QUATRE-EAR Using Linear Population Size Reduction. 2021, 1-8	
740	A New Hybrid Method for Global Optimization Based on the Bird Mating Optimizer and the Differential Evolution. 2021 ,	O
739	Using Ultrasonic Sensors and a Knowledge-Based Neural Fuzzy Controller for Mobile Robot Navigation Control. 2021 , 10, 466	6
738	Bidding strategy of thermal power compound differential evolution game under the market mechanism of peak regulation auxiliary service. 2021 , 15, 1871-1883	1
737	Evolutionary Algorithm based Ensemble Extractive Summarization for Developing Smart Medical System. 2021 , 13, 229-259	1
736	Optimization of a Wavy Microchannel Heat Sink with Grooves. 2021 , 9, 373	2
735	Design and applications of an advanced hybrid meta-heuristic algorithm for optimization problems. 1	4
734	State-of-the-Art Reviews of Meta-Heuristic Algorithms with Their Novel Proposal for Unconstrained Optimization and Applications. 2021 , 28, 4049-4115	2

733	A bioinformatic variant fruit fly optimizer for tackling optimization problems. 2021 , 213, 106704	15
732	Differential Evolution Optimal Parameters Tuning with Artificial Neural Network. 2021 , 9, 427	6
731	A novel method to solve visual tracking problem: hybrid algorithm of grasshopper optimization algorithm and differential evolution. 1	О
730	Differential evolution algorithm with dynamic multi-population applied to flexible job shop schedule. 1-22	2
729	Nature-inspired algorithms for Wireless Sensor Networks: A comprehensive survey. 2021 , 39, 100342	35
728	A state-of-the-art differential evolution algorithm for parameter estimation of solar photovoltaic models. 2021 , 230, 113784	40
727	Ranking-based hierarchical random mutation in differential evolution. 2021 , 16, e0245887	O
726	An adaptive mutation strategy for differential evolution algorithm based on particle swarm optimization. 1	5
725	A q component-based adaptive protection coordination optimisation using overcurrent relays in coordination with fuses for hybrid microgrid. 2021 , 15, 2061-2074	0
724	Priority-Aware Secure Precoding Based on Multi-Objective Symbol Error Ratio Optimization. 2021 , 69, 1912-1929	
723	An Adaptive Scaling Cuckoo Search Algorithm. 2021 ,	
722	Scheduling independent tasks in cloud environment based on modified differential evolution. e6256	2
721	An Enhancing Differential Evolution Algorithm with a Rank-Up Selection: RUSDE. 2021, 9, 569	1
720	Adaptive Differential Evolution Optimization-Based Noise-Level Measurement for High-Speed Railways. 036119812098300	1
719	The classification of motor imagery response: an accuracy enhancement through the ensemble of random subspace k-NN. 2021 , 7, e374	6
718	A neighborhood-adaptive state transition algorithm for operational optimization of residue hydrogenation fractionation process. 2021 , 45, 12740-12757	Ο
717	A novel weighted graph representation-based method for structural topology optimization. 2021 , 153, 102977	1
716	An Improved Teachingâllearning-Based Optimization for Multilevel Thresholding Image Segmentation. 2021 , 46, 8371-8396	4

715	An improved LSHADE-RSP algorithm with the Cauchy perturbation: iLSHADE-RSP. 2021 , 215, 106628	4
714	Optimal Selection of Features Using Artificial Electric Field Algorithm for Classification. 2021 , 46, 8355-8369	4
713	On lower confidence bound improvement matrix-based approaches for multiobjective Bayesian optimization and its applications to thin-walled structures. 2021 , 161, 107248	6
712	A stigmergic approach to teaching-learning-based optimization for continuous domains. 2021 , 62, 100826	O
711	X-architecture Steiner minimal tree algorithm based on multi-strategy optimization discrete differential evolution. 2021 , 7, e473	4
710	Population-distributed stochastic optimization for distillation processes: Implementation and distribution strategy. 2021 , 168, 357-368	3
709	Examination of the ECG signal classification technique DEA-ELM using deep convolutional neural network features. 2021 , 80, 24777	1
708	Predictive modeling in a steelmaking process using optimized relevance vector regression and support vector regression. 1	1
707	A gravitational search algorithm with hierarchy and distributed framework. 2021 , 218, 106877	16
706	Differential evolution using improved crowding distance for multimodal multiobjective optimization. 2021 , 62, 100849	23
705	A hybrid whale optimization algorithm for global optimization. 1	5
704	An enhanced differential evolution algorithm with a new oppositional-mutual learning strategy. 2021 , 435, 162-175	5
703	An effective solution to numerical and multi-disciplinary design optimization problems using chaotic slime mold algorithm. 2021 , 1-39	7
702	An efficient bilevel differential evolution algorithm with adaptation of lower level population size and search radius. 2021 , 13, 227-247	O
701	Research on the inverse kinematics of manipulator using an improved self-adaptive mutation differential evolution algorithm. 2021 , 18, 172988142110144	2
700	Real-Time Measurement of Drilling Fluid Rheological Properties: A Review. 2021 , 21,	4
699	Adaptive Multipopulation Evolutionary Algorithm for Contamination Source Identification in Water Distribution Systems. 2021 , 147, 04021014	1
698	Hybrid Differential Evolution Algorithm and Adaptive Large Neighborhood Search to Solve Parallel Machine Scheduling to Minimize Energy Consumption in Consideration of Machine-Load Balance Problems. 2021 , 13, 5470	1

697	A robust and adaptive fuzzy logic based differential evolution algorithm using population diversity tuning for multi-objective optimization. 2021 , 102, 104240	1
696	Channel Estimation of IRS-Aided Communication Systems with Hybrid Multiobjective Optimization. 2021 ,	4
695	Comparison of Adaptive Differential Evolution Algorithms on the MOEA/D-DE Framework. 2021,	
694	Hysteresis compensation and adaptive control based evolutionary neural networks for piezoelectric actuator. 2021 , 36, 5472-5492	3
693	Investigating dynamic performances of fuel cells using pathfinder algorithm. 2021, 237, 114099	8
692	An Adaptive Differential Evolution Algorithm Utilizing Failure Information and Success Information. 2021 ,	
691	A hybrid intelligent approach to detect Android Botnet using Smart Self-Adaptive Learning-based PSO-SVM. 2021 , 222, 106988	10
690	Improving Differential Evolution through Bayesian Hyperparameter Optimization. 2021,	10
689	Learning to Mutate for Differential Evolution. 2021,	1
688	A membrane computing optimization algorithm with multi-subsystems for parameter estimation of heavy oil thermal cracking model. 1	
687	Application of metaheuristics for signal optimisation in transportation networks: A comprehensive survey. 2021 , 63, 100865	6
686	Adaptive Differential Evolution based on Exploration and Exploitation Control. 2021,	
685	A Differential Particle Scheme with Successful Parent Selection and its Application to PID Control Tuning. 2021 ,	1
684	An improved gaining-sharing knowledge algorithm for parameter extraction of photovoltaic models. 2021 , 237, 114030	18
683	An adaptive hybrid differential evolution algorithm for continuous optimization and classification problems. 2021 , 33, 10841	9
682	Quantum differential evolution with cooperative coevolution framework and hybrid mutation strategy for large scale optimization. 2021 , 224, 107080	92
681	Optimal Singular Value Decomposition Based Big Data Compression Approach in Smart Grids. 2021 , 57, 3296-3305	2
680	Trigonometric mutation and successful-parent-selection based adaptive asynchronous differential evolution. 1	3

679	A backtracking differential evolution with multi-mutation strategies autonomy and collaboration. 1	0
678	Solving Multiobjective Game in Multiconflict Situation Based on Adaptive Differential Evolution Algorithm with Simulated Annealing. 2021 , 2021, 1-11	
677	Hip-DE: Historical population based mutation strategy in differential evolution with parameter adaptive mechanism. 2021 , 562, 44-77	9
676	Improved based Differential Evolution Algorithm using New Environment Adaption Operator. 1	1
675	Quantifying the impact of boundary constraint handling methods on differential evolution. 2021,	1
674	Ranking Methods for Multicriteria Decision-Making: Application to Benchmarking of Solvers and Problems. 2021 , 2021, 1-14	
673	. 2021 , 18, 1478-1491	3
672	A Review of Artificial Intelligence to Enhance the Security of Big Data Systems: State-of-Art, Methodologies, Applications, and Challenges. 1	2
671	Materialized view selection applying differential evolution algorithm combined with ensembled constraint handling techniques. 2021 , 80, 31619	O
670	A differential particle scheme and its application to PID parameter tuning of an inverted pendulum. 2021 ,	O
669	Evolutionary algorithms in high-dimensional radio access network optimization. 2021,	
668	Equilibrium optimizer of interswarm interactive learning strategy. 1-25	O
667	Optimization of a fuzzy controller for autonomous robot navigation using a new competitive multi-metaheuristic model. 2021 , 25, 11653-11672	5
666	A varying parameter multi-class second-order macroscopic traffic flow model for coordinated ramp metering with global and local environmental objectives. 2021 , 128, 103106	2
665	Deriving physical and unique bimodal soil Kosugi hydraulic parameters from inverse modelling. 2021 , 153, 103933	2
664	Population management in metaheuristic algorithms: Could less be more?. 2021 , 107, 107389	2
663	Optimization of a deteriorated two-warehouse inventory problem with all-unit discount and shortages via tournament differential evolution. 2021 , 107, 107388	11
662	A new PIV method to measure powder flow velocity in laser metal deposition: an Eulerian-based approach. 2021 , 117, 1825	O

661	Differential Evolution-Based Overcurrent Protection for DC Microgrids. 2021 , 14, 5026	1
660	Adaptive chaotic spherical evolution algorithm. 2021 , 13, 383-411	7
659	Optimal operation of a multi-distribution natural gas pipeline grid: an ant colony approach. 2021 , 11, 3859-3878	2
658	Prediction of the Amount of Soil Discharged by an Earth Pressure Balanced Shield Machine Based on Feature Engineering. 2021 , 25, 4868	Ο
657	Improved ensemble of differential evolution variants. 2021 , 16, e0256206	3
656	Multiscale quantum harmonic oscillator algorithm with guiding information for single objective optimization. 2021 , 65, 100916	O
655	Multi-step time series analysis and forecasting strategy using ARIMA and evolutionary algorithms. 1	2
654	Robust Diversity-based Sine-Cosine Algorithm for Optimizing Hydropower Multi-reservoir Systems. 2021 , 35, 3513-3538	3
653	A Self-Adaptive Mutation Neural Architecture Search Algorithm Based on Blocks. 2021 , 16, 67-78	32
652	Learning Adaptive Differential Evolution Algorithm From Optimization Experiences by Policy Gradient. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 666-680	15.6 6
652 651		15.6 6
	Gradient. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 666-680	
651	Gradient. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 666-680 Identification of structures for ion channel kinetic models. 2021 , 17, e1008932 Adaptive strategy in differential evolution via explicit exploitation and exploration controls. 2021 ,	3
651 650	Gradient. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 666-680 Identification of structures for ion channel kinetic models. 2021 , 17, e1008932 Adaptive strategy in differential evolution via explicit exploitation and exploration controls. 2021 , 107, 107494 The Real-Life Application of Differential Evolution with a Distance-Based Mutation-Selection. 2021 ,	3
651 650 649	Identification of structures for ion channel kinetic models. 2021, 17, e1008932 Adaptive strategy in differential evolution via explicit exploitation and exploration controls. 2021, 107, 107494 The Real-Life Application of Differential Evolution with a Distance-Based Mutation-Selection. 2021, 9, 1909	3
651 650 649	Identification of structures for ion channel kinetic models. 2021, 17, e1008932 Adaptive strategy in differential evolution via explicit exploitation and exploration controls. 2021, 107, 107494 The Real-Life Application of Differential Evolution with a Distance-Based Mutation-Selection. 2021, 9, 1909 Adaptive Self-Scaling Brain-Storm Optimization via a Chaotic Search Mechanism. 2021, 14, 239 A general approach to solving hardware and software partitioning problem based on evolutionary	3 2
651 650 649 648	Identification of structures for ion channel kinetic models. 2021, 17, e1008932 Adaptive strategy in differential evolution via explicit exploitation and exploration controls. 2021, 107, 107494 The Real-Life Application of Differential Evolution with a Distance-Based Mutation-Selection. 2021, 9, 1909 Adaptive Self-Scaling Brain-Storm Optimization via a Chaotic Search Mechanism. 2021, 14, 239 A general approach to solving hardware and software partitioning problem based on evolutionary algorithms. 2021, 159, 102998 Multi-Energy Scheduling of an Industrial Integrated Energy System by Reinforcement	3 2 0

643	Optimization of PID parameter tuning for gravity stabilized platform based on improved differential evolutionary algorithm. 2021 , 2029, 012107	1
642	Nâll Security Constrained Short-Term Hydrothermal Scheduling by Self Adaptive Genetic Algorithm with PTDF. 2021 ,	O
641	Optimizing reservoir operation to avoid downstream physical habitat loss using coupled ANFISmetaheuristic model. 1	1
640	Wild Geese Algorithm: A novel algorithm for large scale optimization based on the natural life and death of wild geese. 2021 , 11, 100074	4
639	Differential evolution: A recent review based on state-of-the-art works. 2021,	17
638	Improved adaptive coding learning for artificial bee colony algorithms. 1	O
637	Metaheuristics for the online printing shop scheduling problem. 2021 , 293, 419-441	5
636	Dynamic sine cosine algorithm for large-scale global optimization problems. 2021 , 177, 114950	20
635	Performance assessment of meta-heuristics for composite layup optimisation. 1	1
634	Utilizing Evolutionary algorithms for continuous simulation of long-term reservoir inflows. 1-35	1
633	An Adaptative Differential Evolution Algorithm for Vibration Level Reduction in Rotordynamics. 2022 , 103-113	
632	Chromatic confocal sensor-based sub-aperture scanning and stitching for the measurement of microstructured optical surfaces. 2021 , 29, 33512-33526	2
631	A comprehensive survey on nature-inspired algorithms and their applications in edge computing: Challenges and future directions.	1
630	Information guiding and sharing enhanced simultaneous heat transfer search and its application to k-means optimization. 2021 , 109, 107476	2
629	Optimal allocation of photovoltaic/wind energy system in distribution network using meta-heuristic algorithm. 2021 , 109, 107594	4
628	QANA: Quantum-based avian navigation optimizer algorithm. 2021 , 104, 104314	40
627	An Improved Multioperator-Based Constrained Differential Evolution for Optimal Power Allocation in WSNs. 2021 , 21,	1
626	An improved Chaotic Harris Hawks Optimizer for solving numerical and engineering optimization problems. 1	6

(2021-2021)

625	Research on Data Analysis of Traditional Chinese Medicine with Improved Differential Evolution Clustering Algorithm. 2021 , 2021, 4468741	О
624	Hunger games search: Visions, conception, implementation, deep analysis, perspectives, and towards performance shifts. 2021 , 177, 114864	203
623	Multi-strategy co-evolutionary differential evolution for mixed-variable optimization. 2021, 229, 107366	5
622	CS-DE: Cooperative Strategy based Differential Evolution with population diversity enhancement. 2021 , 577, 663-696	6
621	Modified lightning search algorithm for optimization. 2021 , 105, 104419	0
620	Dynamic soft sensor modeling method fusing process feature information based on an improved intelligent optimization algorithm. 2021 , 217, 104415	2
619	A new quantum particle swarm optimization algorithm for controller placement problem in software-defined networking. 2021 , 95, 107456	3
618	An improved dynamic multi-objective optimization approach for nonlinear equation systems. 2021 , 576, 204-227	1
617	Self-Adaptive two roles hybrid learning strategies-based particle swarm optimization. 2021, 578, 457-481	6
616	Dynamic group optimization algorithm with a meanâNariance search framework. 2021 , 183, 115434	
615	Using differential evolution and Mothâ E lame optimization for scientific workflow scheduling in fog computing. 2021 , 112, 107744	1
614	NFDDE: A novelty-hybrid-fitness driving differential evolution algorithm. 2021 , 579, 33-54	3
613	Differential evolution with mixed mutation strategy based on deep reinforcement learning. 2021 , 111, 107678	8
612	A neighborhood information utilization fireworks algorithm and its application to traffic flow prediction. 2021 , 183, 115189	3
611	Segmentation of brain MRI using an altruistic Harris HawksâlDptimization algorithm. 2021, 232, 107468	3
610	Effective coordination settings for directional overcurrent relay using hybrid Gradient-based optimizer. 2021 , 112, 107748	7
609	Enhanced Harris hawks optimization with multi-strategy for global optimization tasks. 2021 , 185, 115499	7
608	Population initialization techniques for evolutionary algorithms for single-objective constrained optimization problems: Deterministic vs. stochastic techniques. 2021 , 67, 100952	3

607	SHADEâMOA: A metaheuristic algorithm for global optimization. 2021 , 113, 107866	11
606	A prescription of methodological guidelines for comparing bio-inspired optimization algorithms. 2021 , 67, 100973	16
605	A novel hybrid differential evolution and symbiotic organisms search algorithm for size and shape optimization of truss structures under multiple frequency constraints. 2021 , 184, 115534	8
604	Differential evolution based on migrating variables for the combined heat and power dynamic economic dispatch. 2022 , 238, 121664	12
603	Solving static and dynamic multi-area economic dispatch problems using an improved competitive swarm optimization algorithm. 2022 , 238, 122035	5
602	Discovery of aluminum alloys with ultra-strength and high-toughness via a property-oriented design strategy. 2022 , 98, 33-43	9
601	A compliant guiding mechanism utilizing orthogonally oriented flexures with enhanced stiffness in degrees-of-constraint. 2022 , 167, 104555	0
600	On Selection of a Benchmark by Determining the Algorithmsâ[Qualities. 2021 , 9, 51166-51178	6
599	Multi-debris Removal in Low-Orbit Based on Swarm Intelligence Research on Optimal Guidance Method. 2021 , 116-131	
598	A Hybrid Harmony Search Algorithm Based on Data Analysis to Solve Multi-objective Grain Transportation Problem. 2021 , 151-173	
597	Solution of chemical dynamic optimization systems using novel differential gradient evolution algorithm. 2021 , 96, 035212	6
596	Differential Evolution Mutations: Taxonomy, Comparison and Convergence Analysis. 2021 , 9, 68629-68662	7
595	Modeling algal atypical proliferation in La Barca reservoir using L-SHADE optimized gradient boosted regression trees: a case study. 2021 , 33, 7821-7838	0
594	An Improved Whale Optimization Algorithm with Random Evolution and Special Reinforcement Dual-Operation Strategy Collaboration. 2021 , 13, 238	12
593	A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	4
592	Differential Evolution Based Layer-Wise Weight Pruning for Compressing Deep Neural Networks. 2021 , 21,	4
591	Chaotic Arc Adaptive Grasshopper Optimization. 2021 , 9, 17672-17706	4
590	Precise Burden Charging Operation During Iron-Making Process in Blast Furnace. 2021 , 9, 45655-45667	1

589	High-Bandwidth Tracking Control of Piezoactuated Nanopositioning Stages via Active Modal Control. 2021 , 1-9	2
588	Real-Parameter Unconstrained Optimization Based on Enhanced AGDE Algorithm. 2019, 431-450	16
587	Towards Human Cell Simulation. 2019 , 221-249	3
586	A Hybrid TLBO Algorithm by Quadratic Approximation for Function Optimization and Its Application. 2020 , 291-341	3
585	Segmentation of Magnetic Resonance Brain Images Through the Self-Adaptive Differential Evolution Algorithm and the Minimum Cross-Entropy Criterion. 2020 , 311-350	1
584	Comparative Analysis of the Cuckoo Search Algorithm. 2014 , 85-113	15
583	Parameter Adaptation in Differential Evolution Based on Diversity Control. 2013, 146-157	1
582	Improved Adaptive Differential Evolution Algorithm with External Archive. 2013, 170-178	2
581	Fuzzy Clustering of Image Pixels with a Fitness-Based Adaptive Differential Evolution. 2013, 179-188	2
580	Differential Evolution with Controlled Annihilation and Regeneration of Individuals and A Novel Mutation Scheme. 2013 , 286-297	1
579	Neural Network Based on Self-adaptive Differential Evolution for Ultra-Short-Term Power Load Forecasting. 2014 , 403-412	2
578	cuSaDE: A CUDA-Based Parallel Self-adaptive Differential Evolution Algorithm. 2015 , 375-388	5
577	Rotation-Based Learning: A Novel Extension of Opposition-Based Learning. 2014 , 511-522	4
576	A Differential Evolution Algorithm with a Variable Neighborhood Search for Constrained Function Optimization. 2015 , 171-184	5
575	Comparison of Parameter Control Mechanisms in Multi-objective Differential Evolution. 2015 , 89-103	6
574	Differential Evolution with Two Subpopulations. 2015 , 1-13	1
573	Multi-chaotic System Induced Success-History Based Adaptive Differential Evolution. 2016 , 517-527	0
572	Optimal Power Allocation of Wireless Sensor Networks with Multi-operator Based Constrained Differential Evolution. 2017 , 339-352	2

571	Archive Analysis in SHADE. 2017 , 688-699	1
57°	Evolutionary Computation. 2019 , 3-22	10
569	Transfer Knowledge Based Evolution of an External Population for Differential Evolution. 2018, 222-229	1
568	Enhancing AGDE Algorithm Using Population Size Reduction for Global Numerical Optimization. 2018 , 62-72	11
567	Rotation Invariance and Rotated Problems: An Experimental Study on Differential Evolution. 2018 , 597-614	5
566	Multi-strategy Differential Evolution. 2018 , 617-633	5
565	Differential Evolution Algorithm: Foundations and Perspectives. 2009 , 63-110	2
564	Gene Sorting in Differential Evolution. 2009 , 663-674	2
563	A Multi-strategy Differential Evolution Algorithm for Financial Prediction with Single Multiplicative Neuron. 2009 , 122-130	2
562	Parallel Random Injection Differential Evolution. 2010 , 471-480	2
561	Estimation Distribution Differential Evolution. 2010 , 522-531	5
560	LACAIS: Learning Automata Based Cooperative Artificial Immune System for Function Optimization. 2010 , 64-75	8
559	Comparison-Based Adaptive Strategy Selection with Bandits in Differential Evolution. 2010 , 194-203	8
558	Differential Evolution Algorithms with Cellular Populations. 2010 , 320-330	6
557	A Three-Strategy Based Differential Evolution Algorithm for Constrained Optimization. 2010, 585-592	5
556	Design of Robust Optimal Fixed Structure Controller Using Self Adaptive Differential Evolution. 2010 , 79-86	1
555	Differential Evolution Algorithm with Ensemble of Parameters and Mutation and Crossover Strategies. 2010 , 71-78	42
554	Multi-Objective Differential Evolution with Adaptive Control of Parameters and Operators. 2011 , 473-487	16

553	An Informative Differential Evolution with Self Adaptive Re-clustering Technique. 2011, 27-34	4
552	Robot Base Disturbance Optimization with Compact Differential Evolution Light. 2012 , 285-294	4
551	Decomposition and Metaoptimization of Mutation Operator in Differential Evolution. 2012, 110-118	3
550	Population Reduction Differential Evolution with Multiple Mutation Strategies in Real World Industry Challenges. 2012 , 154-161	41
549	Explore Influence of Differential Operator in DE Mutation with Unrestrained Method to Generate Mutant Vector. 2012 , 292-300	1
548	Parallel Migration Model Employing Various Adaptive Variants of Differential Evolution. 2012, 39-47	10
547	On Challenging Techniques for Constrained Global Optimization. 2013, 641-671	5
546	Modifications of Differential Evolution with Composite Trial Vector Generation Strategies. 2013 , 113-122	4
545	A Fitness-Based Adaptive Differential Evolution Approach to Data Clustering. 2013, 469-475	2
544	PSO-Tuned Control Parameter in Differential Evolution Algorithm. 2012 , 417-424	1
543	Improving Adaptive Differential Evolution with Controlled Mutation Strategy. 2012, 636-643	1
542	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. 2014 , 615-626	11
541	Randomization and Complex Networks for Meta-Heuristic Algorithms. 2018, 177-194	2
540	Hybridizing Differential Evolution Variants Through Heterogeneous Mixing in a Distributed Framework. 2016 , 107-151	4
539	Hybrid Grey Wolf Optimizer with Mutation Operator. 2019 , 961-968	15
538	Biogeography-Based Optimization in Machine Learning. 2019 , 199-217	4
537	How Effective is the Salp Swarm Algorithm in Data Classification. 2020 , 579-588	19
536	Fully Informed Grey Wolf Optimizer Algorithm. 2021 , 497-512	1

535	Neighbourhood-Inspired Grey Wolf Optimizer. 2021 , 123-136	1
534	Estimating the Optimal Mixture Design of Concrete Pavements Using a Numerical Method and Meta-heuristic Algorithms. 2021 , 45, 913-927	10
533	Flexible job shop scheduling problem with reconfigurable machine tools: An improved differential evolution algorithm. 2020 , 94, 106416	25
532	Novel dual-population adaptive differential evolution algorithm for large-scale multi-fuel economic dispatch with valve-point effects. 2020 , 203, 117874	12
531	An adaptive integral separated proportionalâIntegral controller based strategy for particle swarm optimization. 2020 , 195, 105696	3
530	Hybrid Stochastic Ranking for Constrained Optimization. 2020 , 8, 227270-227287	2
529	A Novel Data Placement Strategy for Data-Sharing Scientific Workflows in Heterogeneous Edge-Cloud Computing Environments. 2020 ,	12
528	Parameter Optimization of Differential Evolution and Particle Swarm Optimization in the Context of Optimal Power Flow. 2020 ,	1
527	An Efficient Artificial Bee Colony Algorithm With an Improved Linkage Identification Method. 2020 , PP,	10
526	Probabilistic Topic Modeling for Comparative Analysis of Document Collections. 2020 , 14, 1-27	5
525	Deep-Mining Backtracking Search Optimization Algorithm Guided by Collective Wisdom. 2019 , 2019, 1-30	4
524	Hybrid DE-EM Algorithm for Gaussian Mixture Model-Based Wireless Channel Multipath Clustering. 2019 , 2019, 1-10	2
523	Common-reflection-surface stack improvement by differential evolution and conflicting dip processing. 2015 ,	3
522	Application of vision measurement model with an improved moth-flame optimization algorithm. 2019 , 27, 20800-20815	3
521	Application of differential evolution algorithm on self-potential data. 2012, 7, e51199	43
	Differential Evalution Control Parameter Optimization for Hamanned Assial Vehicle Path Planning	
520	Differential-Evolution Control Parameter Optimization for Unmanned Aerial Vehicle Path Planning. 2016 , 11, e0150558	23
519		1

(2021-2020)

517	Comparative performance evaluation of self-adaptive differential evolution with GA, SCE and DE algorithms for the automatic calibration of a computationally intensive distributed hydrological model. 2020 , 3, 306-327	3
516	Efficient Bag-of-Features using Improved Whale Optimization Algorithm for Histopathological Image Classification. 2019 , 12, 269-279	1
515	Tournament selection mechanism based random vector selection in differential evolution algorithm. 2017 , 4, 147-158	2
514	Benchmarking of Problems and Solvers: a Game-Theoretic Approach. 2019 , 44, 137-150	1
513	Efficient Image Retrieval by Fuzzy Rules from Boosting and Metaheuristic. 2020, 10, 57-69	25
512	Using Cuckoo Search Algorithm with Q-Learning and Genetic Operation to Solve the Problem of Logistics Distribution Center Location. 2020 , 8, 149	17
511	A Compact Pigeon-Inspired Optimization for Maximum Short-Term Generation Mode in Cascade Hydroelectric Power Station. 2020 , 12, 767	61
510	A modified differential evolution based solution technique for economic dispatch problems. 2012 , 8, 1017-1038	6
509	State transition algorithm. 2012 , 8, 1039-1056	92
508	Meta-Heuristic Algorithms in Medical Image Segmentation. 2018 , 185-203	7
507	Hybrid Data Intelligent Models and Applications for Water Level Prediction. 2018, 121-139	5
506	Experimental Study on Recent Advances in Differential Evolution Algorithm. 2011 , 2, 58-81	3
505	Interpolation Based Mutation Variants of Differential Evolution. 2012, 3, 34-50	2
504	Differential Evolution Algorithm Based on Ensemble of Constraint Handling Techniques and Multi-Population Framework. 2020 , 10, 22-40	1
503	Differential Evolution in Discrete Optimization. 2012 , 1, 1-10	5
502	Development of pedotransfer functions for water retention in tropical mountain soil landscapes: spotlight on parameter tuning in machine learning. 2020 , 6, 215-229	2
501	Multi-objective Adaptive Antenna Synthesis Using Teaching Learning Based Optimization. 2021, 197-210	
500	Solving Expensive Multimodal Optimization Problem by a Decomposition Differential Evolution Algorithm. 2021 , PP,	1

499	An ESR Quasi-Online Identification Method for the Fractional-Order Capacitor of Forward Converters Based on Variational Mode Decomposition. 2021 , 1-1	12
498	Adaptive Differential Evolution With Information Entropy-Based Mutation Strategy. 2021 , 9, 146783-146796	
497	. 2021 , 9, 142114-142128	О
496	Joint Optimization of 260km Unrepeatered Transmission System using Third Order DRA and ROPA. 2021 ,	
495	Development of an Improved GMPPT Based on Scanning Method for PV System Operating under a Dynamic Partial Shading Conditions. 2021 , 6, 1	3
494	Adaptive differential evolution with ensembling operators for continuous optimization problems. 2021 , 100994	1
493	A fault diagnosis model for proton exchange membrane fuel cell based on impedance identification with differential evolution algorithm. 2021 , 46, 38795-38808	1
492	Enhanced multi-swarm cooperative particle swarm optimizer. 2021 , 100989	7
491	Enhancement of Voltage Profile in the Distribution system by Reconfiguring with DG placement using Equilibrium Optimizer. 2021 , 61, 4081-4081	6
490	Multi-population and dynamic-iterative cuckoo search algorithm for linear antenna array synthesis. 2021 , 113, 108004	1
489	Experimental measurement of the powder flow velocity in a three-port coaxial laser metal deposition nozzle by high-speed imaging. 2021 , 33, 042021	
488	Parameters identification of Thevenin model for lithium-ion batteries using self-adaptive Particle Swarm Optimization Differential Evolution algorithm to estimate state of charge. 2021 , 44, 103244	6
487	Constraint Handling in Transmission Network Expansion Planning. 2010 , 709-717	
486	Taguchi Method Based Parametric Study of Generalized Generation Gap Genetic Algorithm Model. 2010 , 344-350	1
485	Electromagnetic Antenna Configuration Optimization Using Fitness Adaptive Differential Evolution. 2010 , 87-94	
484	A Self Adaptive Differential Evolution Algorithm for Global Optimization. 2010 , 103-110	2
483	Enhanced Discrete Differential Evolution to Determine Optimal Coordination of Directional Overcurrent Relays in a Power System. 2011 , 85-93	
482	A Novel Differential Evolution with Co-evolution Strategy. 2011 , 6,	O

481	Real Coded Feature Selection Integrated with Self-adaptive Differential Evolution Algorithm. 2012, 481-488	1
480	Differential Evolution with a Relational Neighbourhood-Based Strategy for Numerical Optimization. 2012 , 189-197	
479	A Comparison of Two Adaptation Approaches in Differential Evolution. 2012, 317-324	1
478	Self-adaptive Clustering-Based Differential Evolution with New Composite Trial Vector Generation Strategies. 2012 , 261-267	4
477	Fast Mixed Strategy Differential Evolution Using Effective Mutant Vector Pool. 2012 , 374-381	
476	Adaptive Differential Evolution with Directional Information Based Search Moves. 2012, 433-441	
475	Design of Fuzzy Models with the Aid of an Improved Differential Evolution. 2012, 22, 399-404	
474	Comparisons of Different Mutation and Recombination Processes of the DEA for SALB-1. 2013 , 1571-1579	1
473	A Modified Differential Evolution for Symbol Detection in MIMO-OFDM System. 2013, 236-247	
472	Drilling Cost Prediction Based on Self-adaptive Differential Evolution and Support Vector Regression. 2013 , 67-75	1
471	A Simple Adaptive Algorithm for Numerical Optimization. 2013 , 115-126	
470	An Adaptive Multiobjective Differential Evolution Algorithm. 2013 , 8,	4
469	Influence of Chaotic Dynamics on the Performance of Differential Evolution Algorithm. 2014, 277-290	
468	Evolution Strategies. 2014 , 15-26	
467	Monocular 3D Shape Recovery of Inextensibility Deformable Surface by Using DE-Based Niching Algorithm with Partial Reinitialization. 2014 , 328-338	
466	A Diversity-Based Comparative Study for Advance Variants of Differential Evolution. 2014 , 1317-1331	
465	XML-Based Approach for Evolving Web Service Architectures Description. 186-190	
464	Self-Adaptive DE Applied to Controller Design. 2014 , 02, 46-53	Ο

463	Multi-chaotic Differential Evolution: Determining the Switching Time. 2014 , 99-110	
462	Real-Coded Genetic Algorithm with Oriented Search towards Promising Region for Parameter Optimization. 2014 , 35-39	
461	ACDE2: An Adaptive Cauchy Differential Evolution Algorithm with Improved Convergence Speed. 2014 , 41, 1090-1098	
460	Self-Adaptive Differential Evolution Algorithms for Wireless Communications and the Antenna and Microwave Design Problems. 2015 , 5754-5766	
459	Encyclopedia of Complexity and Systems Science. 2015 , 1-7	
458	On the Tuning of Complex Dynamics Embedded into Differential Evolution. 2015 , 389-399	
457	Evolving the Parameters of Differential Evolution Using Evolutionary Algorithms. 2015, 523-534	
456	SMAS: A Generalized and Efficient Framework for Computationally Expensive Electronic Design Optimization Problems. 2015 , 251-275	1
455	Directional Differential Evolution: Approaching to the Superior, Departing from the Inferior, or Both?. 2015 , 255-265	
454	Diagnosing Time-Dependent Incipient Faults. 2016 , 47-62	
453	Differential Evolution. 2016 , 93-103	
453 452		
	Differential Evolution. 2016 , 93-103	3
452	Differential Evolution. 2016, 93-103 Hybridization of Chaotic Systems and Success-History Based Adaptive Differential Evolution. 2016, 145-156 CURRENT TRANSFORMER MATHEMATICAL MODEL BASED ON THE JILES-ATHERTON THEORY OF	3
45 ²	Differential Evolution. 2016, 93-103 Hybridization of Chaotic Systems and Success-History Based Adaptive Differential Evolution. 2016, 145-156 CURRENT TRANSFORMER MATHEMATICAL MODEL BASED ON THE JILES-ATHERTON THEORY OF FERROMAGNETIC HYSTERESIS. 2016, 2016, 58-65 Modeling and optimization of CNC milling of AISI 1050 steel by a regression based differential	
452 451 450	Differential Evolution. 2016, 93-103 Hybridization of Chaotic Systems and Success-History Based Adaptive Differential Evolution. 2016, 145-156 CURRENT TRANSFORMER MATHEMATICAL MODEL BASED ON THE JILES-ATHERTON THEORY OF FERROMAGNETIC HYSTERESIS. 2016, 2016, 58-65 Modeling and optimization of CNC milling of AISI 1050 steel by a regression based differential evolution algorithm (DEA). 2016, 58, 632-639 Chapter 19 Evaluation Of Simulated Annealing, Differential Evolution, And Particle Swarm	
452 451 450 449	Differential Evolution. 2016, 93-103 Hybridization of Chaotic Systems and Success-History Based Adaptive Differential Evolution. 2016, 145-156 CURRENT TRANSFORMER MATHEMATICAL MODEL BASED ON THE JILES-ATHERTON THEORY OF FERROMAGNETIC HYSTERESIS. 2016, 2016, 58-65 Modeling and optimization of CNC milling of AISI 1050 steel by a regression based differential evolution algorithm (DEA). 2016, 58, 632-639 Chapter 19 Evaluation Of Simulated Annealing, Differential Evolution, And Particle Swarm Optimization For Solving Pooling Problems. 2016, 513-544 Demand-Side Management: Optimising Through Differential Evolution Plug-in Electric Vehicles to	1

445	Hybridization of Analytic Programming and Differential Evolution for Time Series Prediction. 2017, 686-698	1
444	Semantic Evolutionary Visualization. 2017 , 624-635	
443	Differential Evolution Driven Analytic Programming for Prediction. 2017, 676-687	2
442	Incorporating More Scaled Differences to Differential Evolution. 2017, 101-112	
441	Parameter Optimization Methods Based on Computational Intelligence Techniques in Context of Sustainable Computing. 2017 , 101-113	
440	Detecting Potential Design Weaknesses in SHADE Through Network Feature Analysis. 2017 , 662-673	
439	Differential Evolution Algorithm with Space Reduction for Solving Large-Scale Global Optimization Problems. 2017 , 671-694	
438	On the Efficiency of Successful-Parent Selection Framework in the State-of-the-art Differential Evolution Variants. 2017 , 327-336	1
437	A Center Multi-swarm Cooperative Particle Swarm Optimization with Ratio and Proportion Learning. 2017 , 189-197	
436	An Adaptive Differential Evolution with Learning Parameters According to Groups Defined by the Rank of Objective Values. 2017 , 411-419	1
435	The Influence of Archive Size to SHADE. 2017 , 517-527	
434	A Bayesian Restarting Approach to Algorithm Selection. 2017 , 397-408	
433	Enhanced DE with Weighted Base Vector for Unconstrained Global Optimization. 2017, 10, 1-16	
432	Bibliography. 251-264	
431	Comparison of Vertex Centrality Measures in Complex Network Analysis Based on Adaptive Artificial Bee Colony Algorithm. 2018 , 161-176	
430	Numerical Solution of Singularly Perturbed Convection Delay Problems Using Self-adaptive Differential Evolution Algorithm. 2018 , 650-661	1
429	A Fast Hybrid Meta-Heuristic Algorithm for Economic/Environment Unit Commitment with Renewables and Plug-In Electric Vehicles. 2018 , 477-486	
428	A Divisive Multi-level Differential Evolution. 2018 , 98-110	

427	Optimal Structural Elements Sizing Using Neural Network and Adaptive Differential Algorithm. 2018 , 93-134	
426	Optimization of Antenna Arrays and Microwave Filters Using Differential Evolution Algorithms. 2018 , 6595-6608	Ο
425	Feature Subset Selection Using a Self-adaptive Strategy Based Differential Evolution Method. 2018 , 223-232	
424	Artificial Bee Colony Algorithm Based on Ensemble of Constraint Handing Techniques. 2018 , 806-817	
423	A Modification of MOEA/D for Solving Multi-Objective Optimization Problems. 2018, 22, 214-223	1
422	Metaheuristics for Optimization Problems. 2019 , 43-83	
421	Protein Docking using Constrained Self-adaptive Differential Evolution Algorithm.	
42 0	On the Applicability of Random and the Best Solution Driven Metaheuristics for Analytic Programming and Time Series Regression. 2019 , 489-498	
419	Enhanced Archive for SHADE. 2019 , 40-55	
418	Randomization of Individuals Selection in Differential Evolution. 2019 , 180-191	1
417	Differential Evolution Based on Learnable Evolution Model for Function Optimization. 2019, 290-302	
416	Optimization of Antenna Arrays and Microwave Filters Using Differential Evolution Algorithms. 2019 , 1281-1296	
415	Event-Triggering Impulsive Differential Evolution. 2019 , 1-35	
414	Generative Adversarial Optimization. 2019 , 3-17	4
413	Analysis of Optimization Capability of Selection Operator for DE Algorithm. 2019, 132-141	
412	Optimized design of single-pump fiber optical parametric amplifier with highly nonlinear fiber segments using a differential evolution algorithm. 2019 , 58, 1	O
411	Impact of differential evolution parameters on optimization of hydro-thermal coordination. 2019 , 14, 121-130	O
410	Adaptive Inertia-Weighted Firefly Algorithm. 2020 , 495-503	1

409	Population Size in Differential Evolution. 2020 , 21-30	2
408	Best Polynomial Harmony Search with Best EHill Climbing Algorithm. 2020 , 30, 1-17	1
407	An Enhanced Differential Evolution Algorithm with New Environmental-Based Parameters for Solving Optimization Problems. 2021 , 119-129	
406	An enhanced differential evolution algorithm with adaptation of switching crossover strategy for continuous optimization. 2020 , 45, 97-124	1
405	An Adaptive Differential Evolution Algorithm with Restart for Solving Continuous Optimization Problems. 2020 , 15, 254-269	1
404	Solving the single row facility layout problem by differential evolution. 2020,	1
403	Enhanced Differential Evolution Algorithm with Local Search Based on Hadamard Matrix. 2021 , 2021, 8930980	1
402	A self-adaptive weighted differential evolution approach for large-scale feature selection. 2021 , 235, 107633	4
401	Reducing the conflict of interest in the optimal operation of reservoirs by linking mesohabitat hydraulic modeling and metaheuristic optimization.	0
400	On the Performance and Complexity of Crossover in Differential Evolution Algorithm. 2020 , 363-375	
399	Differential Evolution and Its Application in Identification of Virus Release Location in a Sewer Line. 2020 , 53-72	
398	. 2020,	O
397	Adaptive Directional Mutation for an Adaptive Differential Evolution Algorithm. 2020,	0
396	Randomness Selection in Differential Evolution Using Thompson Sampling. 2020,	
395	Multi-objective Optimal Location and Size of Embedded Generation Units and Capacitors Using Metaheuristic Algorithms. 2021 , 471-486	
394	Experimental Sensitivity Analysis of Grid-Based Parameter Adaptation Method. 2021 , 335-346	
393	Differential Evolution-Based Wingsuit Flying Search for Optimization. 2020,	1
392	. 2020,	O

391	A hybrid method for harmonic state estimation in partially observable systems. 2021, 31, e12763	2
390	An improved mixed-coded hybrid firefly algorithm for the mixed-discrete SSCGR problem. 2022 , 188, 116050	1
389	A Penalty-Based Differential Evolution for Multimodal Optimization. 2021, PP,	1
388	Introduction. 2020 , 1-24	
387	Research on Two-Level Inventory Optimization Algorithm for Repairable Spare Parts Based on Improved Differential Evolution. 2020 , 341-354	
386	Swarm Optimized Simple Adaptive Controller for Spacecraft Proximity Operations Trajectory Tracking. 2020 , 53, 3785-3790	
385	UAV 3D Path Planning Based on Multi-Population Ensemble Differential Evolution. 2020, 598-610	O
384	Multi-subpopulation Algorithm with Ensemble Mutation Strategies for Protein Structure Prediction. 2020 , 255-268	
383	A Re-initialization Clustering-Based Adaptive Differential Evolution for Nonlinear Equations Systems. 2020 , 422-438	
382	Enhancing Differential Evolution on Continuous Optimization Problems by Detecting Promising Leaders. 2020 , 8, 226557-226578	
381	MDO Related Issues: Multi-Objective and Mixed Continuous/Discrete Optimization. 2020, 321-358	0
380	S-LRLA: A New Kind of Low Redundant Linear Array. 2021 , 1-1	
379	Modeling And Simulation Of PV System with Self Adaptive Differential Evolution Based MPPT Under Partial Shading Condition. 2021 ,	
378	Radial basis collocation method with parameters optimized for estimating pollutant release history. 2021 , 1	O
377	Extension of terahertz time-domain spectroscopy: A micron-level thickness gauging technology. 2021 , 506, 127597	0
376	Improved Filter Ranking Incorporated Binary Black Hole Algorithm for Feature Selection. 2022, 3, 1	1
375	Accurate parameters extraction of PEMFC model based on metaheuristics algorithms. 2021, 7, 6854-6867	3
374	Optimal identification of Be-doped Al0.29Ga0.71As Schottky diode parameters using Dragonfly Algorithm: A thermal effect study. 2021 , 160, 107085	O

373	A Novel Exhaust Gas Temperature Prediction Method of Hot Blast Stove. 2020 ,	О
372	Experimental Study on Recent Advances in Differential Evolution Algorithm. 111-133	
371	Kanalizasyon Sistemlerinin Diferansiyel Evrim Algoritmas⊞kullan⊞arak Optimum Tasar⊞n⊞	2
370	Karfica Aslan£Optimizasyon Algoritmas£Kullanarak Gffitßegmentasyonu [h Modifiye Edilmi[] Bſge Geniſetme Yfitemi.	
369	Phase diversity method based on an improved particle swarm algorithm used in co-phasing error detection. 2020 , 59, 9735-9743	1
368	Optimizing Connected Target Coverage in Wireless Sensor Networks Using Self-Adaptive Differential Evolution. 2020 , 8, 325-330	
367	A vectorized bimodal distribution based micro differential evolution algorithm (VB-mDE). 2020 , 16, 245-261	
366	Introduction to Optimisation. 2021 , 223-268	
365	Self-adaptive multi-objective differential evolution algorithm with first front elitism for optimizing network usage in networked control systems. 2022 , 114, 108112	Ο
364	Deep-space trajectory optimizations using differential evolution with self-learning. 2022 , 191, 258-269	1
363	Adaptive operator selection with test-and-apply structure for decomposition-based multi-objective optimization. 2022 , 68, 101013	1
362	GSK-RL: Adaptive Gaining-sharing Knowledge algorithm using Reinforcement Learning. 2021,	О
361	A Two-Stage Differential Evolution Algorithm with Mutation Strategy Combination. 2021, 13, 2163	0
360	A massively parallel speciation-based differential evolution algorithm applied to the 3D-AB protein structure prediction. e6745	
359	Constrained evolutionary optimization based on reinforcement learning using the objective function and constraints. 2021 , 237, 107731	2
358	SFSADE: an improved self-adaptive differential evolution algorithm with a shuffled frog-leaping strategy. 1	O
357	An adaptive differential evolution algorithm using fitness distance correlation and neighbourhood-based mutation strategy. 1-28	1
356	Chaotic diffusion-limited aggregation enhanced grey wolf optimizer: Insights, analysis, binarization, and feature selection.	3

355	Dispersed foraging slime mould algorithm: Continuous and binary variants for global optimization and wrapper-based feature selection. 2021 , 237, 107761	14
354	UAV search-and-rescue planning using an adaptive memetic algorithm. 2021 , 22, 1477-1491	1
353	An advanced optimization strategy for enhancing the performance of a hybrid pressure-swing distillation process in effective binary-azeotrope separation. 2021 , 282, 120130	1
352	PSO-sono: A novel PSO variant for single-objective numerical optimization. 2021 , 586, 176-176	1
351	An evolutionary trajectory planning algorithm for multi-UAV-assisted MEC system. 1	3
350	Research on Improvement of Differential Evolution Algorithm Based on Eigenvalues and Eigenvectors of Covariance Matrix. 2021 , 11, 2682-2699	
349	Stackelberg Game based Pricing and Offloading in Mobile Edge Computing. 2021, 1-1	1
348	An On-Chain Analysis-Based Approach to Predict Ethereum Prices. 2021 , 9, 167972-167989	1
347	. 2021 , 9, 152430-152441	2
346	Artificial Neural Networks Hidden Unit and Weight Connection Optimization by Quasi-Refection-Based Learning Artificial Bee Colony Algorithm. 2021 , 9, 169135-169155	24
345	A Context-Aware Framework for Risky Driving Behavior Evaluation Based on Trajectory Data. 2021 , 2-15	О
345	A Context-Aware Framework for Risky Driving Behavior Evaluation Based on Trajectory Data. 2021 , 2-15 Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems 2022 , 1-35	4
	Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world	4
344	Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems 2022, 1-35 A Differential Evolution Algorithm for Wind Farm Layout Optimization Using a New Bilevel	4
344	Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems 2022, 1-35 A Differential Evolution Algorithm for Wind Farm Layout Optimization Using a New Bilevel Programming Model. 2022, 584-596 A simulation-optimization system for evaluating flood management and environmental flow supply	1
344 343 342	Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems 2022, 1-35 A Differential Evolution Algorithm for Wind Farm Layout Optimization Using a New Bilevel Programming Model. 2022, 584-596 A simulation-optimization system for evaluating flood management and environmental flow supply by reservoirs. 2022, 111, 2855 Application of Neuromorphic Olfactory Approach for High-Accuracy Classification of Malts 2022,	4
344 343 342 341	Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems 2022, 1-35 A Differential Evolution Algorithm for Wind Farm Layout Optimization Using a New Bilevel Programming Model. 2022, 584-596 A simulation-optimization system for evaluating flood management and environmental flow supply by reservoirs. 2022, 111, 2855 Application of Neuromorphic Olfactory Approach for High-Accuracy Classification of Malts 2022, 22, A radial basis function surrogate model assisted evolutionary algorithm for high-dimensional	1

337	Novel binary differential evolution algorithm based on Taper-shaped transfer functions for binary optimization problems. 2022 , 69, 101022	4
336	EEG/ERP signal enhancement through an optimally tuned adaptive filter based on marine predators algorithm. 2022 , 73, 103427	O
335	Short term electricity price forecasting using a new hybrid model based on two-layer decomposition technique and ensemble learning. 2022 , 205, 107762	2
334	A two-stage VIKOR assisted multi-operator differential evolution approach for Influence Maximization in social networks. 2022 , 192, 116342	3
333	Optimal management of hydropower production: Case of Memveâlle hydropower reservoir policy. 2022 , 8, 1425-1456	0
332	Big Data Compression in Smart Grids via Optimal Singular Value Decomposition. 2020,	1
331	Improved Design of IIR filter using Salp Swarm Algorithm. 2020 ,	
330	A State Transition Algorithm with Variable Local Candidate Solution Space and its application to Residue Hydrogenation Fractionation Process.	
329	Forecasting Sovereign Credit Ratings Using Differential Evolution and Logic Aggregation in IBA Framework. 2022 , 506-513	
328	A Personnel Rating Optimization Algorithm. 2021,	
328 327	A Personnel Rating Optimization Algorithm. 2021, LCOS-SLM Based Intelligent Hybrid Algorithm for Beam Splitting. 2022, 11, 428	
		o
327	LCOS-SLM Based Intelligent Hybrid Algorithm for Beam Splitting. 2022 , 11, 428	O
327	LCOS-SLM Based Intelligent Hybrid Algorithm for Beam Splitting. 2022, 11, 428 Modified group theory-based optimization algorithms for numerical optimization. 1 Investigations on Distributed Differential Evolution Framework with Fault Tolerance Mechanisms.	O
327 326 325	LCOS-SLM Based Intelligent Hybrid Algorithm for Beam Splitting. 2022, 11, 428 Modified group theory-based optimization algorithms for numerical optimization. 1 Investigations on Distributed Differential Evolution Framework with Fault Tolerance Mechanisms. 2022, 175-196 Analytical Study on the Role of Scale Factor Parameter of Differential Evolution Algorithm on Its	0
327 326 325 324	LCOS-SLM Based Intelligent Hybrid Algorithm for Beam Splitting. 2022, 11, 428 Modified group theory-based optimization algorithms for numerical optimization. 1 Investigations on Distributed Differential Evolution Framework with Fault Tolerance Mechanisms. 2022, 175-196 Analytical Study on the Role of Scale Factor Parameter of Differential Evolution Algorithm on Its Convergence Nature. 2022, 77-135 A Novel Enhanced Differential Evolution Algorithm for Outbound Logistics of the Poultry Industry	
327 326 325 324 323	LCOS-SLM Based Intelligent Hybrid Algorithm for Beam Splitting. 2022, 11, 428 Modified group theory-based optimization algorithms for numerical optimization. 1 Investigations on Distributed Differential Evolution Framework with Fault Tolerance Mechanisms. 2022, 175-196 Analytical Study on the Role of Scale Factor Parameter of Differential Evolution Algorithm on Its Convergence Nature. 2022, 77-135 A Novel Enhanced Differential Evolution Algorithm for Outbound Logistics of the Poultry Industry in Thailand. 2022, 8, 15	1

Research on prediction of Chinaâl financial systematic risk based on the hybrid model. **2022**, 1-16

318	Tumbleweed Algorithm and Its Application for Solving Location Problem of Logistics Distribution Center. 2022 , 641-652	O
317	Modeling biogas production from anaerobic wastewater treatment plants using radial basis function networks and differential evolution. 2022 , 157, 107629	1
316	An adaptive symbiotic organisms search for constrained task scheduling in cloud computing. 1	O
315	Columnar dipolar clusters defying gravity 2022 , 105, L012602	O
314	MOSA/D: Multi-operator evolutionary many-objective algorithm with self-adaptation of parameters based on decomposition. 1	Ο
313	Artificial bee colony algorithm with bi-coordinate systems for global numerical optimization.	
312	Remodelling of an Electric Distribution Network Through Optimal Placement of Auto-Reclosers to Enhance System Reliability and Efficiency. 2022 , 47, 3619	1
311	Information-utilization strengthened equilibrium optimizer. 1	О
310	Design of optimal environmental flow regime at downstream of multireservoir systems by a coupled SWAT-reservoir operation optimization method. 1	Ο
309	A systematic overview of developments in differential evolution and particle swarm optimization with their advanced suggestion. 1	О
308	Reducing impacts of rice fields nitrate contamination on the river ecosystem by a coupled SWAT reservoir operation optimization model. 2022 , 15, 1	
307	Online algorithm configuration for differential evolution algorithm. 1	
306	Reinforcement Learning-Based Differential Evolution for Global Optimization. 2022, 43-75	
305	Chaos Driven Evolutionary Algorithm: a Novel Approach for Optimization. 2022 , 16, 21-25	
304	Differential evolution with two-level adaptive mechanism for numerical optimization. 2022 , 241, 108209	1
303	An advanced Grey Wolf Optimization Algorithm and its application to planning problem in smart grids. 2022 , 26, 3789	1
302	An efficient multilevel thresholding image segmentation method based on the slime mould algorithm with bee foraging mechanism: A real case with lupus nephritis images 2021 , 142, 105179	5

301	A self-adaptive gradient descent search algorithm for fully-connected neural networks. 2022, 478, 70-80	5
300	Dwarf Mongoose Optimization Algorithm. 2022 , 391, 114570	49
299	Discrete differential evolution metaheuristics for permutation flow shop scheduling problems. 2022 , 166, 107956	5
298	Ship-unloading scheduling optimization with differential evolution. 2022 , 591, 88-102	O
297	Multi-threshold image segmentation using a multi-strategy shuffled frog leaping algorithm. 2022 , 194, 116511	5
296	CCSA: Cellular Crow Search Algorithm with topological neighborhood shapes for optimization. 2022 , 194, 116431	1
295	Practical Distribution System Analysis with Multiple PV and DSTATCOM Using Flower Pollination Algorithm. 2022 , 239-253	О
294	Hybrid Model Optimization Algorithm for Efficient design of Digital filter. 2022,	
293	Convergence Track Based Adaptive Differential Evolution Algorithm (CTbADE). 2022 , 72, 1229-1250	
292	A Chaotic Oppositional Whale Optimisation Algorithm with Firefly Search for Medical Diagnostics. 2022 , 72, 959-982	5
291	Evolutionary algorithm with self-learning strategy for generation of adversarial samples. 2022, 13, 0-0	O
290	Black Widow Spider Algorithm Based on Differential Evolution and Random Disturbance. 2022 , 58-70	
289	Hybrid Bacteria Foraging Algorithm with PSO and DE algorithm for optimal Cluster head selection in Wireless Sensor Networks. 2022 , 16, 0-0	
288	Improving teaching-learning-based-optimization algorithm by a distance-fitness learning strategy. 2022 , 108271	2
287	Fast TT transform and optimized probabilistic neural network-based power quality event detection and classification. 1	1
286	A New Study on Optimization of Four-Bar Mechanisms Based on a Hybrid-Combined Differential Evolution and Jaya Algorithm. 2022 , 14, 381	O
285	Modifications for the Differential Evolution Algorithm. 2022 , 14, 447	О
284	PaSOFuAC: Particle Swarm Optimization Based Fuzzy Associative Classifier for Detecting Phishing Websites. 1	O

283	Self-adaptive DE algorithm without niching parameters for multi-modal optimization problems. 1	О
282	Heterogeneous ensemble algorithms for function optimization. 1	
281	Toward Low-Symmetry Systems: An Adaptive Differential Evolution Algorithm for Global Structure Searching 2022 , 2986-2993	
280	Optimal Allocation of Distributed Generators in Active Distribution Networks Using a New Oppositional Hybrid Sine Cosine Muted Differential Evolution Algorithm. 2022 , 15, 2267	3
279	Self-adaptive differential evolution with Gaussianâllauchy mutation for large-scale CHP economic dispatch problem. 1	2
278	Chromosomes identification based differential evolution (CIDE): a new bio-inspired variant for network intrusion detection. 1	О
277	A Path Optimization Algorithm for Multiple Unmanned Tractors in Peach Orchard Management. 2022 , 12, 856	О
276	Searching for a Unique Exciton Model of Photosynthetic Pigmentâ P rotein Complexes: Photosystem II Reaction Center Study by Differential Evolution. 2022 , 10, 959	O
275	Using Spatial Neighborhoods for Parameter Adaptation: An Improved Success History based Differential Evolution. 2022 , 101057	O
274	Hybrid-Flash Butterfly Optimization Algorithm with Logistic Mapping for Solving the Engineering Constrained Optimization Problems 2022 , 24,	3
273	The structural weight design method based on the modified grasshopper optimization algorithm. 1	
272	A novel adaptive 3-stage hybrid teaching-based differential evolution algorithm for frequency-constrained truss designs. 2022 , 38, 934-948	O
271	Optimizing environmental flow regime by integrating river and reservoir ecosystems. 1	1
270	The water optimization algorithm: a novel metaheuristic for solving optimization problems.	O
269	Particle swarm-differential evolution algorithm with multiple random mutation. 2022 , 120, 108640	0
268	Ensembles strategies for backtracking search algorithm with application to engineering design optimization problems. 2022 , 121, 108717	Ο
267	An adaptive state transition algorithm with local enhancement for global optimization. 2022, 121, 108733	O
266	Simultaneous damping and tracking control of a normal-stressed electromagnetic actuated nano-positioning stage. 2022 , 338, 113467	2

265	Self-adaptive multi-objective evolutionary algorithm for flexible job shop scheduling with fuzzy processing time. 2022 , 168, 108099	2
264	Fast inverse design of nanophotonics using differential evolution and back-propagation. 2022 , 514, 128155	O
263	Cooperative co-evolutionary differential evolution algorithm applied for parameters identification of lithium-ion batteries. 2022 , 200, 117192	1
262	Poplar optimization algorithm: A new meta-heuristic optimization technique for numerical optimization and image segmentation. 2022 , 200, 117118	O
261	Heterogeneous differential evolution algorithm for parameter estimation of solar photovoltaic models. 2022 , 8, 4724-4746	3
260	An individual-dependent differential evolution with dual information guidance. 2021,	
259	A Hybrid evolutionary algorithm based on Artificial Bee Colony algorithm and Differential Evolution. 2021 ,	
258	Hybridizing Cuckoo Search with Naked Mole-rat Algorithm: Adapting for CEC 2017 and CEC 2021 Test Suites. 2021 ,	
257	DE Based Reduced-Order Modeling for Interval Modeling Doha Water Treatment Plant. 2021,	O
256	MTV-MFO: Multi-Trial Vector-Based Moth-Flame Optimization Algorithm. 2021 , 13, 2388	10
256 255	MTV-MFO: Multi-Trial Vector-Based Moth-Flame Optimization Algorithm. 2021 , 13, 2388 Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution Method. 2021 , 9, 3329	10
	Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution	10 0
255	Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution Method. 2021 , 9, 3329 An Evolutionary Frog Leaping Algorithm for Global Optimization Problems and Applications 2021 ,	
² 55	Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution Method. 2021, 9, 3329 An Evolutionary Frog Leaping Algorithm for Global Optimization Problems and Applications 2021, 2021, 8928182 Structural Design and Optimization of a Resonant Micro-Accelerometer Based on Electrostatic	O
²⁵⁵ ²⁵⁴ ²⁵³	Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution Method. 2021, 9, 3329 An Evolutionary Frog Leaping Algorithm for Global Optimization Problems and Applications 2021, 2021, 8928182 Structural Design and Optimization of a Resonant Micro-Accelerometer Based on Electrostatic Stiffness by an Improved Differential Evolution Algorithm 2021, 13,	O
255 254 253 252	Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution Method. 2021, 9, 3329 An Evolutionary Frog Leaping Algorithm for Global Optimization Problems and Applications 2021, 2021, 8928182 Structural Design and Optimization of a Resonant Micro-Accelerometer Based on Electrostatic Stiffness by an Improved Differential Evolution Algorithm 2021, 13, Multi-level threshold segmentation based on LSHADE. 2021, A Two-Stage Method Based on Multiobjective Differential Evolution for Gene Selection 2021,	O
255 254 253 252 251	Solution of Mixed-Integer Optimization Problems in Bioinformatics with Differential Evolution Method. 2021, 9, 3329 An Evolutionary Frog Leaping Algorithm for Global Optimization Problems and Applications 2021, 2021, 8928182 Structural Design and Optimization of a Resonant Micro-Accelerometer Based on Electrostatic Stiffness by an Improved Differential Evolution Algorithm 2021, 13, Multi-level threshold segmentation based on LSHADE. 2021, A Two-Stage Method Based on Multiobjective Differential Evolution for Gene Selection 2021, 2021, 5227377	0

247 Data_Sheet_1.docx. **2019**,

246	PAIDDE: A Permutation-Archive Information Directed Differential Evolution Algorithm. 2022 , 1-1	1
245	Comparative study of incremental capacity curve determination methods for lithium-ion batteries considering the real-world situation. 2022 , 1-1	О
244	Differential Evolution Algorithms Comparison Used to Tune a Visual Control Law. 2022 , 10, 46028-46042	
243	Adaptive Dimensional Learning with a Tolerance Framework for the Differential Evolution Algorithm. 2022 , 2, 59-77	1
242	Differential Evolution with Level-Based Learning Mechanism. 2022 , 2, 35-58	2
241	Mutual learning differential particle swarm optimization. 2022,	0
240	Binary Artificial Electric Field Algorithm. 1	O
239	QUAntum Particle Swarm Optimization: an auto-adaptive PSO for local and global optimization. 1	1
238	Improved opposition-based self-adaptive differential evolution algorithm for vibrational hybrid femtosecond/picosecond coherent anti-Stokes Raman scattering thermometry.	O
237	Adaptive heterogeneous comprehensive learning particle swarm optimization with history information and dimensional mutation. 1	
236	Machine Leaning-Based Optimization Algorithm for Myocardial Injury under High-Intensity Exercise in Track and Field Athletes 2022 , 2022, 7792958	
235	A reinforcement learning based RMOEA/D for bi-objective fuzzy flexible job shop scheduling. 2022 , 117380	1
234	Joint Beam Selection and Precoding Based on Differential Evolution for Millimeter-Wave Massive MIMO Systems. 2022 ,	
233	An Model of T Cell Infiltration Dynamics Based on an Advanced System to Enhance Preclinical Decision Making in Cancer Immunotherapy 2022 , 13, 837261	О
232	Combustion machine learning: Principles, progress and prospects. 2022 , 91, 101010	6
231	A reinforcement learning based artificial bee colony algorithm with application in robot path planning. 2022 , 203, 117389	1
230	A ranking-based adaptive cuckoo search algorithm for unconstrained optimization. 2022 , 117428	2

229	Improving the search accuracy of differential evolution by using the number of consecutive unsuccessful updates. 2022 , 109005	О
228	Multi-population biogeography-based optimization algorithm and its application to image segmentation. 2022 , 109005	1
227	An Improved JADE Hybridizing with Tuna Swarm Optimization for Numerical Optimization Problems. 2022 , 2022, 1-17	
226	Scientific Workflows in IoT Environments: A Data Placement Strategy Based on Heterogeneous Edge-Cloud Computing.	1
225	LS-HH: A Learning-Based Selection Hyper-Heuristic for Distributed Heterogeneous Hybrid Blocking Flow-Shop Scheduling. 2022 , 1-17	1
224	Simulation of Shrinkage during Sintering of Additively Manufactured Silica Green Bodies. 2022 , 102908	
223	Dynamic fitness landscape-based adaptive mutation strategy selection mechanism for differential evolution. 2022 ,	0
222	An improved method for classifying depth-based human actions using self-adaptive evolutionary technique.	
221	Probabilistic Analysis of Search Performance of Differential Evolution Algorithm in Low-Dimensional Case. 2022 , 2022, 1-21	
220	A meta-evolutionary selection of constituents in ensemble differential evolution algorithm. 2022, 117667	Ο
219	A meta-evolutionary selection of constituents in ensemble differential evolution algorithm. 2022, 117667 Alpine skiing optimization: A new bio-inspired optimization algorithm. 2022, 170, 103158	0
219	Alpine skiing optimization: A new bio-inspired optimization algorithm. 2022 , 170, 103158 Improved slime mould algorithm hybridizing chaotic maps and differential evolution strategy for	11
219	Alpine skiing optimization: A new bio-inspired optimization algorithm. 2022, 170, 103158 Improved slime mould algorithm hybridizing chaotic maps and differential evolution strategy for global optimization. 2022, 1-1 An adaptive differential evolution algorithm with elite gaussian mutation and bare-bones strategy.	11
219 218 217	Alpine skiing optimization: A new bio-inspired optimization algorithm. 2022, 170, 103158 Improved slime mould algorithm hybridizing chaotic maps and differential evolution strategy for global optimization. 2022, 1-1 An adaptive differential evolution algorithm with elite gaussian mutation and bare-bones strategy. 2022, 19, 8537-8553 Image Principal Distance Calibration Method by Binocular Camera Based on Improved Differential	11
219 218 217 216	Alpine skiing optimization: A new bio-inspired optimization algorithm. 2022, 170, 103158 Improved slime mould algorithm hybridizing chaotic maps and differential evolution strategy for global optimization. 2022, 1-1 An adaptive differential evolution algorithm with elite gaussian mutation and bare-bones strategy. 2022, 19, 8537-8553 Image Principal Distance Calibration Method by Binocular Camera Based on Improved Differential Evolution Algorithm. 2022, 2284, 012004 Application of Industry 3.5 approach for planning of more sustainable supply chain operations for	11 O
219 218 217 216 215	Alpine skiing optimization: A new bio-inspired optimization algorithm. 2022, 170, 103158 Improved slime mould algorithm hybridizing chaotic maps and differential evolution strategy for global optimization. 2022, 1-1 An adaptive differential evolution algorithm with elite gaussian mutation and bare-bones strategy. 2022, 19, 8537-8553 Image Principal Distance Calibration Method by Binocular Camera Based on Improved Differential Evolution Algorithm. 2022, 2284, 012004 Application of Industry 3.5 approach for planning of more sustainable supply chain operations for tourism service providers. 1-24 Differential evolution algorithm-based aberration correction method for the interference of vortex	11 O

211	Interval fuzzy robust non-fragile finite frequency control for active suspension of in-wheel motor driven electric vehicles with time delay. 2022 ,	0
21 0	Two-step Robust Control Design of Quantum Gates via Differential Evolution. 2022,	
209	A novel hybrid GWOâPSO-based maximum power point tracking for photovoltaic systems operating under partial shading conditions. 2022 , 12,	4
208	An adaptive dimension differential evolution algorithm based on ranking scheme for global optimization. 8, e1007	
207	Random neighbor elite guided differential evolution for global numerical optimization. 2022 , 607, 1408-1438	1
206	An efficient differential evolution with fitness-based dynamic mutation strategy and control parameters. 2022 , 251, 109280	1
205	Reinforced Event-Driven Evolutionary Algorithm Based on Double Deep Q-network. 2022 , 294-304	
204	The Clustering Algorithm Based on Improved Antlion Optimization Algorithm with K-Means Concepts. 2022 , 125-135	
203	Multi-strategy adaptive cuckoo search algorithm for numerical optimization.	
202	Optimization of UAV Cooperative Path Planning Mathematical Model Based on Personalized Multigroup Sparrow Search Algorithm in Complex Environment. 2022 , 2022, 1-25	
201	Monthly and seasonal hydrological drought forecasting using multiple extreme learning machine models. 2022 , 16, 1364-1381	2
200	A Dynamic Adaptive Weighted Differential Evolutionary Algorithm. 2022 , 2022, 1-10	
199	Hybrid grasshopper and differential evolution algorithm for prolonging network life expectancy in wireless sensor networks (WSNs).	
198	Hybrid teaching-learning with comprehensive learning capability for electromagnetic device design problems. 095440542211022	
197	Enhanced discrete dragonfly algorithm for solving four-color map problems.	О
196	An efficient mixture sampling model for gaussian estimation of distribution algorithm. 2022 , 608, 1157-1182	0
195	Energy absorption behaviors and optimization design of thin-walled double-hat beam under bending. 2022 , 179, 109577	0
194	Differential Evolution with Autonomous Selection of Mutation Strategies and Control Parameters and Its Application. 2022 , 2022, 1-18	

193	Investigation of Energy-Saving Strategy for Parallel Variable Frequency Pump System Based on Improved Differential Evolution Algorithm. 2022 , 15, 5360	
192	Scale-free Network-based Differential Evolution to Solve Function Optimization and Parameter Estimation of Photovoltaic Models. 2022 , 101142	2
191	Optimal policy of hydroelectric reservoir integrated spill flow. 1-52	0
190	Improving differential evolution using a best discarded vector selection strategy. 2022, 609, 353-375	O
189	Discrete Artificial Electric Field Optimization Algorithm for Graph Coloring Problem. 2022 , 876-890	
188	Unit-Level AC Induced Magnetic Behavior in the Low-Frequency Regime: Measurement and Characterization. 2022 ,	
187	A classification tree and decomposition based multi-objective evolutionary algorithm with adaptive operator selection.	Ο
186	A state of art review on applications of multi-objective evolutionary algorithms in chemicals production reactors.	Ο
185	A hyper-heuristic guided by a probabilistic graphical model for single-objective real-parameter optimization.	
184	A self-adaptive evolutionary algorithm using Monte Carlo Fragment insertion and conformation clustering for the protein structure prediction problem.	
183	Biometrics: Going 3D. 2022 , 22, 6364	
182	Optimization of a non-instantaneous deteriorating inventory problem with time and price dependent demand over finite time horizon via hybrid DESGO algorithm. 2022 , 118676	O
181	Energy-efficient open-shop scheduling with multiple automated guided vehicles and deteriorating jobs. 2022 , 100387	
180	Advanced environmental adaptation method.	
179	Solving Systems of Nonlinear Equations Using an Innovative Hybrid Algorithm.	
178	Multi-Population Differential Evolution Algorithm with Uniform Local Search. 2022, 12, 8087	Ο
177	PSO/DE combined with simulation current method for the magnetic field under transmission lines in 3D calculation model. 002029402211097	
176	Optimizing computation offloading under heterogeneous delay requirements for wireless powered mobile edge computing.	

175	Short-Term Hydro-Thermal-Solar Scheduling with CCGT Based on Self-Adaptive Genetic Algorithm. 2022 , 15, 5989	
174	Decomposition-based multiobjective optimization for nonlinear equation systems with many and infinitely many roots. 2022 , 610, 605-623	1
173	Model Based Demand Order Estimation by Using Optimal Architecture Artificial Neural Network with Metaheuristic Optimizations. 1277-1291	
172	Opposition-mutual learning differential evolution with hybrid mutation strategy for large-scale economic load dispatch problems with valve-point effects and multi-fuel options. 2022 , 609, 1721-1745	O
171	Multi-level thresholding segmentation for pathological images: Optimal performance design of a new modified differential evolution. 2022 , 148, 105910	O
170	Two-level parameter cooperation-based population regeneration framework for differential evolution. 2022 , 75, 101122	O
169	Solving multimodal optimization problems using adaptive differential evolution with archive. 2022 , 612, 1024-1044	O
168	An adaptive framework to select the coordinate systems for evolutionary algorithms. 2022 , 129, 109585	O
167	An adaptive neighborhood-based speciation differential evolution for multimodal optimization. 2023 , 211, 118571	0
166	Design, modeling, and test of a normal-stressed electromagnetic actuated compliant nano-positioning stage. 2023 , 185, 109753	O
165	Energy Community Measures Evaluation via Differential Evolution Optimization. 2022, 26, 606-615	O
164	Model Predictive Control of Grade Transition with Attention Base Sequence-to-Sequence Model. 2022 , 367-372	O
163	Normal-Stressed Electromagnetic Triaxial Fast Tool Servo for Micro-Cutting. 2022, 1-10	O
162	Multi-View Point Cloud Registration Based on Evolutionary Multitasking With Bi-Channel Knowledge Sharing Mechanism. 2022 , 1-18	O
161	Multiple Buried Target Reconstruction Using a Multiscale Hybrid of Diffraction Tomography and CMA-ES Optimization. 2022 , 60, 1-13	1
160	Antenna Array Design Using Differential Evolution with Ranking-Based Mutation Operators. 2022 , 243-263	O
159	Differential Evolution Algorithm Based on Adaptive Rank Exponent and Parameters. 2022, 217-229	0
158	Restriction Site Detection in Optical Mapping Data. 2022 , 393-402	O

157	Parameter Estimation of Energy-Efficient Antenna System Using Period-Based Memetic Algorithm.	0
156	Evolving Dynamic Route Generators for Open-Ended ARPs. 2022 , 348-359	Ο
155	Event-Triggering Impulsive Differential Evolution. 2022, 983-1017	O
154	A Quantum Evolutionary Algorithm and Its Application to Optimal Dynamic Investment in Market Microstructure Model. 2022 , 386-396	О
153	Temperature Control Design with Differential Evolution Based Improved Adaptive-Fuzzy-PID Techniques. 2023 , 36, 781-801	1
152	An Adaptive Differential Evolution with Mutation Strategy Pools for Global Optimization. 2022,	Ο
151	Multi-task Optimization Based Co-training for Electricity Consumption Prediction. 2022,	0
150	Learning Obstacle-Avoiding Lattice Paths using Swarm Heuristics: Exploring the Bijection to Ordered Trees. 2022 ,	Ο
149	Comparative Study and Improvement Analysis of Sparrow Search Algorithm. 2022, 2022, 1-15	1
148	A novel self-adaptation and sorting selection-based differential evolutionary algorithm applied to water distribution system optimization. 2022 , 71, 1068-1082	Ο
147	Optimal Defense Strategy Selection Algorithm Based on Reinforcement Learning and Opposition-Based Learning. 2022 , 12, 9594	0
146	Fault Diagnosis Analysis of Angle Grinder Based on ACD-DE and SVM Hybrid Algorithm. 2022 , 10, 3279	O
145	Addressing Constrained Engineering Problems and Feature Selection with a Time-Based Leadership Salp-Based Algorithm with Competitive Learning.	1
144	Novel Self-adaptive Genetic Algorithm for Solving AC Security Constrained Short-term Hydrothermal Scheduling. 2022 ,	O
143	Effects of CT Combined with Modified Qinfan Decoction on Improving Sores and Promoting Angiogenesis. 2022 , 2022, 1-7	О
142	Differential evolutionary cuckoo-search-integrated tabu-adaptive pattern search (DECS-TAPS): A novel multi-hybrid variant of swarm intelligence and evolutionary algorithm in architectural design optimization and automation.	O
141	Deep Searching Based Optimized Machine Translation for Language Translation Tool.	0
140	Population reduction with individual similarity for differential evolution.	Ο

139	DEt FarklEMetasezgisel Algoritma KullanEarak RØgE HÆDlasEk DaÆnDarametrelerinin Tahmini.	Ο
138	Empirical Analysis of Novel Differential Evolution for Molecular Potential Energy Problem. 2023, 359-370	O
137	Double Mutational Salp Swarm Algorithm: From Optimal Performance Design to Analysis.	1
136	Learning Adaptive Differential Evolution by Natural Evolution Strategies. 2022, 1-15	O
135	DEHypGpOls: a genetic programming with evolutionary hyperparameter optimization and its application for stock market trend prediction.	Ο
134	A survey of designing convolutional neural network using evolutionary algorithms.	Ο
133	An application of augmented Lagrangian differential evolution algorithm for optimizing the speed of inland ships sailing on the Yangtze River. 2022 , 100488	Ο
132	Multitasking Optimization via an Adaptive Solver Multitasking Evolutionary Framework. 2022,	Ο
131	Disturbance rejection of TâB fuzzy systems: a membership function-dependent EID method. 1-15	0
130	Auto-Diversified Ameliorated MultiPopulation-Based Ensemble Differential Evolution. 2023, 177-191	O
129	A Novel Adaptive FCM with Cooperative Multi-Population Differential Evolution Optimization. 2022 , 15, 380	0
128	A Hybrid Optimization Framework with Dynamic Transition Scheme for Large-Scale Portfolio Management. 2022 , 15, 404	O
127	Minimizing environmental impacts of apple production by linking yield prediction model and wateralnergy resourcesal optimization.	0
126	An opposition-based differential evolution clustering algorithm for emotional preference and migratory behavior optimization. 2022 , 110073	1
125	Advanced dwarf mongoose optimization for solving CEC 2011 and CEC 2017 benchmark problems. 2022 , 17, e0275346	0
124	Homonuclear Molecules Optimization (HMO) meta-heuristic algorithm. 2022 , 258, 110032	O
123	An improved teachingalearning-based optimization algorithm with a modified learner phase and a new mutation-restarting phase. 2022 , 258, 109989	0
122	Differential evolution with hybrid parameters and mutation strategies based on reinforcement learning. 2022 , 75, 101194	О

121	An adaptive biogeography-based optimization with cumulative covariance matrix for rule-based network intrusion detection. 2022 , 75, 101199	О
120	Unified operation optimization model of integrated coal mine energy systems and its solutions based on autonomous intelligence. 2022 , 328, 120106	О
119	Performance optimization of water cycle algorithm for multilevel lupus nephritis image segmentation. 2023 , 80, 104139	0
118	A Novel Particle Swarm Optimizer and Its Application to the Yield Curve Estimation Problem. 2022 , 10, 118575-118589	o
117	Multiple individual guided differential evolution with time varying and feedback information-based control parameters. 2023 , 259, 110091	O
116	Parameter optimization of energy-efficient antenna system using period-based memetic algorithm. 2023 , 214, 119131	О
115	Microgrid Scheduling Optimization under False Data Injection Attack. 2022,	O
114	Efficient Spectrum Allocation in Cognitive Radio using Yellow Saddle Goatfish Algorithm. 2022,	О
113	A discrete differential evolution with local search particle swarm optimization to direct angle and aperture optimization in IMRT treatment planning problem. 2022 , 109798	0
112	Differential Evolution and Its Applications in Image Processing Problems: A Comprehensive Review.	О
111	A Hybrid of Fully Informed Particle Swarm and Self-Adaptive Differential Evolution for Global Optimization. 2022 , 12, 11367	1
110	A novel high-level target navigation pigeon-inspired optimization for global optimization problems.	О
109	Differential evolution reveals the effect of polar and nonpolar solvents on carotenoids: A case study of astaxanthin optical response modeling. 2022 , 75, 101210	О
108	On Improving Adaptive Problem Decomposition Using Differential Evolution for Large-Scale Optimization Problems. 2022 , 10, 4297	1
107	Unmanned ground weapon target assignment based on deep Q-learning network with an improved multi-objective artificial bee colony algorithm. 2023 , 117, 105612	0
106	Global Optimization Method Based on the Survival of the Fittest Algorithm. 2022, 187-201	o
105	Hybrid Schemes for Cultural Algorithms. 2022 , 147-196	0
104	A multi-strategy improved slime mould algorithm for global optimization and engineering design problems. 2023 , 404, 115764	О

103	A variant of the united multi-operator evolutionary algorithms using sequential quadratic programming and improved SHADE-cnEpSin. 2023 , 622, 652-681	0
102	Enhancing differential evolution algorithm using leader-adjoint populations. 2023 , 622, 235-268	1
101	Review on Unmanned Aerial Vehicle Assisted Sensor Node Localization in Wireless Networks: Soft Computing Approaches. 2022 , 1-1	1
100	Adaptive Differential Evolution Algorithm with Multiple Gaussian Learning Models. 2022, 325-336	О
99	An Improved Lion Swarm Optimization Algorithm With Chaotic Mutation Strategy and Boundary Mutation Strategy for Global Optimization. 2022 , 10, 131264-131302	0
98	Real-Time Experimental Analysis of Hybrid BG-FL Based MPPT Controller for a Photovoltaic System Under Partial Shading Conditions. 2022 ,	O
97	Layout and design optimization of ocean wave energy converters: A scoping review of state-of-the-art canonical, hybrid, cooperative, and combinatorial optimization methods. 2022 , 8, 15446-154	79 ⁰
96	An interior search algorithm based on chaotic and crossover strategies for parameter extraction of polyphase induction machines.	Ο
95	Crisscross Harris Hawks Optimizer for Global Tasks and Feature Selection.	0
94	Differential evolution with variable leader-adjoint populations.	O
93	A survey on multi-objective hyperparameter optimization algorithms for machine learning.	2
92	Flat optical frequency comb generation by using one DPMZM and superposed harmonics. 2022 , 129223	O
91	Optimization of workpiece processing based on the orthogonal double-Chain differential evolution algorithm.	O
90	Improved Dwarf Mongoose Optimization for Constrained Engineering Design Problems.	O
89	Monte Carlo Simulation Affects Convergence of Differential Evolution: A Case of Optical Response Modeling. 2023 , 16, 3	О
88	Metaheuristics in Business Model Development for Local Tourism Sustainability Enhancement. 2022 , 10, 4750	O
87	A Decision-Making Capability Optimization Scheme of Control Combination and PID Controller Parameters for Bivariate Fertilizer Applicator Improved by Using EDEM. 2022 , 12, 2100	1
86	MSSSA: a multi-strategy enhanced sparrow search algorithm for global optimization. 2022 , 23, 1828-1847	O

85	Calibration of conceptual rainfall-runoff models by selected differential evolution and particle swarm optimization variants.	O
84	An Improved Whale Optimizer with Multiple Strategies for Intelligent Prediction of Talent Stability. 2022 , 11, 4224	Ο
83	A reliable optimization framework using ensembled successive history adaptive differential evolutionary algorithm for optimal power flow problems.	Ο
82	Advanced Selection Operation for Differential Evolution Algorithm. 2022, 55-74	Ο
81	Parameter extraction of solar photovoltaic models using queuing search optimization and differential evolution. 2023 , 110032	1
80	MMKE: Multi-trial vector-based monkey king evolution algorithm and its applications for engineering optimization problems. 2023 , 18, e0280006	O
79	Multiple Elite Individual Guided Piecewise Search-Based Differential Evolution. 2023, 10, 135-158	Ο
78	The Differential Evolution Algorithm for Solving the Problem of Size Selection and Location of Infectious Waste Incinerator. 2023 , 11, 10	O
77	A Parallel Implementation of the Differential Evolution Method. 2023 , 2, 17-30	О
76	Reliability and efficiency enhancement of a radial distribution system through value-based auto-recloser placement and network remodelling. 2023 , 8,	O
75	Performance assessment and exhaustive listing of 500+ nature-inspired metaheuristic algorithms. 2023 , 101248	2
74	Data collection of multi-player cooperative game based on edge computing in mobile crowd sensing. 2023 , 222, 109551	1
73	Designing of optimal digital IIR filter in the multi-objective framework using an evolutionary algorithm. 2023 , 119, 105803	Ο
72	Flood Damage Mitigation by Reservoirs through Linking Fuzzy Approach and Evolutionary Optimization. 2023 , 24,	Ο
71	An Optimal Motion Planning Framework for Quadruped Jumping. 2022,	2
70	Converging and Moving Detection Using an Outward Vector Rate for Adaptive Differential Evolution. 2022 ,	Ο
69	Optimization on Linkage System for Vehicle Wipers by the Method of Differential Evolution. 2023 , 13, 332	Ο
68	Quantum-Inspired Distributed Memetic Algorithm. 2022 , 2, 334-353	Ο

67	Influencia de los hiper-parfhetros en algoritmos basados en Evolucifi Diferencial para el ajuste de controladores del tipo PID en procesos SISO. 2022 , 20, 44-55	O
66	Surrogate-assisted Parameter Re-initialization for Differential Evolution. 2022,	1
65	An efficient fault tolerance scheme based enhanced firefly optimization for virtual machine placement in cloud computing.	0
64	Hierarchical Harris hawks optimizer for feature selection. 2023,	O
63	Two-Stage Multi-Objective Stochastic Model on Patient Transfer and Relief Distribution in Lockdown Area of COVID-19. 2023 , 20, 1765	0
62	Fireworks explosion boosted Harris Hawks optimization for numerical optimization: Case of classifying the severity of COVID-19. 16,	O
61	A league-knock-out tournament quantum particle swarm optimization algorithm for nonlinear constrained optimization problems and applications.	0
60	Performance Analysis of Distribution System with PV Penetration Using Flower Pollination Algorithm.	O
59	Adaptive Kernel Firefly Algorithm Based Feature Selection and Q-Learner Machine Learning Models in Cloud. 2023 , 1-19	0
58	An Enhanced GWO Algorithm with Improved Explorative Search Capability for Global Optimization and Data Clustering. 2023 , 37,	O
57	Transfer learning based evolutionary algorithm framework for multi-objective optimization problems.	0
56	Weapon Target Assignment Based on Improved Symbiotic Organisms Search Algorithm. 2023 , 3775-3785	O
55	Solving Multi-Echelon Location Allocation Problem Using Modified Differential Evolution Algorithm: Case Study of Agricultural Products Warehouse in Greater Mekong Subregion. 2023 , 145-162	0
54	Particle Swarm Optimization or Differential Evolutionâl comparison. 2023 , 121, 106008	O
53	Neighborhood evolutionary sampling with dynamic repulsion for expensive multimodal optimization. 2023 , 630, 82-97	0
52	A self-competitive mutation strategy for Differential Evolution algorithms with applications to ProportionalaIntegralaDerivative controllers and Automatic Voltage Regulator systems. 2023 , 7, 100205	O
51	Outlier aware differential evolution for multimodal optimization problems. 2023, 140, 110264	0
50	Dimension improvements based adaptation of control parameters in Differential Evolution: A fitness-value-independent approach. 2023 , 223, 119848	О

49	Learning unified mutation operator for differential evolution by natural evolution strategies. 2023 , 632, 594-616	0
48	Differential evolution based on network structure for feature selection. 2023 , 635, 279-297	О
47	SaCHBA_PDN: Modified honey badger algorithm with multi-strategy for UAV path planning. 2023 , 223, 119941	0
46	Multi-threshold image segmentation based on an improved differential evolution: Case study of thyroid papillary carcinoma. 2023 , 85, 104893	O
45	DC-SHADE-IF: An infeasibleafeasible regions constrained optimization approach with diversity controller. 2023 , 224, 119999	O
44	A mixed Harris hawks optimization algorithm based on the pinhole imaging strategy for solving numerical optimization problems.	o
43	Extracting accurate parameters of photovoltaic cell models via elite learning adaptive differential evolution. 2023 , 285, 116994	О
42	A hybrid robust-interval optimization approach for integrated energy systems planning under uncertainties. 2023 , 274, 127267	O
41	Tile-Based Wireless Streaming of 360-Degree Video With Rate Adaptation Using Viewport Estimation. 2022 , 29, 2707-2711	О
40		
40	An Improved GWO Algorithm for Data Clustering. 2022 , 79-90	О
39	An Improved GWO Algorithm for Data Clustering. 2022, 79-90 Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of breast cancer images. 2023, 82, 104592	0
	Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of	
39	Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of breast cancer images. 2023 , 82, 104592 Deep Reinforcement Learning for Adaptive Parameter Control in Differential Evolution for	o
39	Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of breast cancer images. 2023, 82, 104592 Deep Reinforcement Learning for Adaptive Parameter Control in Differential Evolution for Multi-Objective Optimization. 2022, An Adaptive Version of Differential Evolution for Solving CEC2014, CEC 2017 and CEC 2022 Test	0
39 38 37	Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of breast cancer images. 2023, 82, 104592 Deep Reinforcement Learning for Adaptive Parameter Control in Differential Evolution for Multi-Objective Optimization. 2022, An Adaptive Version of Differential Evolution for Solving CEC2014, CEC 2017 and CEC 2022 Test Suites. 2022, Controlling Sequential Hybrid Evolutionary Algorithm by Q-Learning [Research Frontier] [Research	0 0
39 38 37 36	Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of breast cancer images. 2023, 82, 104592 Deep Reinforcement Learning for Adaptive Parameter Control in Differential Evolution for Multi-Objective Optimization. 2022, An Adaptive Version of Differential Evolution for Solving CEC2014, CEC 2017 and CEC 2022 Test Suites. 2022, Controlling Sequential Hybrid Evolutionary Algorithm by Q-Learning [Research Frontier] [Research Frontier]. 2023, 18, 84-103	o o o
39 38 37 36 35	Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of breast cancer images. 2023, 82, 104592 Deep Reinforcement Learning for Adaptive Parameter Control in Differential Evolution for Multi-Objective Optimization. 2022, An Adaptive Version of Differential Evolution for Solving CEC2014, CEC 2017 and CEC 2022 Test Suites. 2022, Controlling Sequential Hybrid Evolutionary Algorithm by Q-Learning [Research Frontier] [Research Frontier]. 2023, 18, 84-103 A multi-strategy adaptive in artificial bee colony algorithm for flexible job shop scheduling. 2023,	0 0 0

31	Improved differential evolution using two-stage mutation strategy for multimodal multi-objective optimization. 2023 , 78, 101232	1
30	An artificial bee colony algorithm with a balance strategy for wireless sensor network. 2023 , 136, 110083	О
29	Optimization of Liquidâ[liquid Mixing in a Novel Mixer Based on Hybrid SVR-DE Model. 2023 , 16, 1808	О
28	Function value ranking aware differential evolution for global numerical optimization. 2023 , 78, 101282	O
27	Helper objective-based multifactorial evolutionary algorithm for continuous optimization. 2023 , 78, 101279	О
26	An enhanced distributed differential evolution algorithm for portfolio optimization problems. 2023 , 121, 106004	1
25	A stress-based limit method for three-dimensional soil slope stability analysis. 2023, 16,	0
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17	A quantum inspired differential evolution algorithm with multiple mutation strategies. 2022,	0
16	Enhancing Differential Evolution Algorithm: Adaptation for CEC 2017 and CEC 2021 Test Suites. 2022 ,	O
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