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Reducing the time complexity of the derandomized evolution strategy with covariance matrix adaptation (CMA-

DOI: 10.1162/106365603321828970 Evolutionary Computation, 2003, 11, 1-18.

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1513	Thermodynamic and Morphological Behavior of Block Copolymer Blends with Thermal Polymer Additives.		
1512	LARES: an artificial chemical process approach for optimization. <i>Evolutionary Computation</i> , <b>2004</b> , 12, 435-59	4.3	18
1511	Learning probability distributions in continuous evolutionary algorithms (a comparative review. <b>2004</b> , 3, 77-112		171
1510	The Lens Design Using the CMA-ES Algorithm. <b>2004</b> , 1189-1200		1
1509	Evaluating the CMA Evolution Strategy on Multimodal Test Functions. 2004, 282-291		264
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1506	Adaptive Transfer Functions in Radial Basis Function (RBF) Networks. 2004, 682-686		8
1505	Convergence results for the . <b>2005</b> , 334, 35-69		75
1504	Computing Nash equilibria through computational intelligence methods. <b>2005</b> , 175, 113-136		68
1503			2
1502	Accelerating evolutionary algorithms with Gaussian process fitness function models. <b>2005</b> , 35, 183-194		196
1501	Novel composition test functions for numerical global optimization.		163
1500	A comparison between the Pittsburgh and Michigan approaches for the binary PSO algorithm.		14
1499	A restart CMA evolution strategy with increasing population size.		357
1498	Learning environment dynamics from self-adaptation. 2005,		6

1497	Improving Evolution Strategies through Active Covariance Matrix Adaptation.	49
1496	The dispersion metric and the CMA evolution strategy. 2006,	75
1495	Advances in Optimizing Screw-lype Machines. 2006,	
1494	The CMA Evolution Strategy: A Comparing Review. <b>2006</b> , 75-102	745
1493	The correlation-triggered adaptive variance scaling IDEA. 2006,	36
1492	A computational efficient covariance matrix update and a (1+1)-CMA for evolution strategies. <b>2006</b> ,	85
1491	Ultrasonic Sensor Placement Optimization in Structural Health Monitoring Using Evolutionary Strategy. <b>2006</b> ,	16
1490	Sensor placement optimization in structural health monitoring using genetic and evolutionary algorithms. <b>2006</b> ,	5
1489	Optimization of anguilliform swimming. <b>2007</b> , 19, 091102	1
1488	Competent Optimization of Water Supply Problems under Uncertainty by Evolution Strategies. <b>2007</b> , 1	
1487	SDR. <b>2007</b> ,	14
1486		
	Adaptive variance scaling in continuous multi-objective estimation-of-distribution algorithms. <b>2007</b> ,	14
1485	Adaptive variance scaling in continuous multi-objective estimation-of-distribution algorithms. <b>2007</b> ,  COSMO. <b>2007</b> ,	14
1485 1484	COSMO. <b>2007</b> ,	
. 3	COSMO. <b>2007</b> ,	1
1484	COSMO. 2007,  Reducing the space-time complexity of the CMA-ES. 2007,  Combining Bayesian classifiers and estimation of distribution algorithms for optimization in	1
1484	COSMO. 2007,  Reducing the space-time complexity of the CMA-ES. 2007,  Combining Bayesian classifiers and estimation of distribution algorithms for optimization in continuous domains. 2007, 19, 297-319	1

1479	Evolving Problems to Learn About Particle Swarm Optimizers and Other Search Algorithms. <b>2007</b> , 11, 561-578	89
1478	Multi-Objective Robust Design Optimisation Using Hierarchical Asynchronous Parallel Asynchronous Evolutionary Algorithms. <b>2007</b> ,	3
1477	Identification of the Isotherm Function in Chromatography Using CMA-ES. 2007,	2
1476	. 2007,	5
1475	A Decision-Tree-Based Multi-objective Estimation of Distribution Algorithm. 2007,	12
1474	Steady-State Selection and Efficient Covariance Matrix Update in the Multi-objective CMA-ES. <b>2007</b> , 171-185	21
1473	Testing and Evaluating the Single Objective Intelligent Evolutionary Algorithm through a Graphic Interface. <b>2007</b> ,	
1472	Covariance matrix adaptation for multi-objective optimization. <i>Evolutionary Computation</i> , <b>2007</b> , 15, 1-28 <sub>4.3</sub>	550
1471	Optimization of concentration control by evolution strategies: Formulation, application, and assessment of remedial solutions. <b>2007</b> , 43,	36
1470	Algorithmic funnel-and-gate system design optimization. <b>2007</b> , 43,	22
1469	Robust optimization 🖟 comprehensive survey. <b>2007</b> , 196, 3190-3218	1008
1468	Human evolutionary model: A new approach to optimization. <b>2007</b> , 177, 2075-2098	62
1467	A comparative study of three evolutionary algorithms for surface acoustic wave sensor wavelength selection. <b>2007</b> , 125, 311-320	13
1466	Modelling the long-term performance of zero-valent iron using a spatio-temporal approach for iron aging. <b>2007</b> , 90, 58-80	23
1465	Mad2 binding is not sufficient for complete Cdc20 sequestering in mitotic transition control (an in silico study). <b>2008</b> , 134, 93-100	28
1464	Robust evolutionary algorithms for UAV/UCAV aerodynamic and RCS design optimisation. <b>2008</b> , 37, 547-564	25
1463	Robust design optimisation using multi-objective evolutionary algorithms. 2008, 37, 565-583	35
1462	Matching inductive search bias and problem structure in continuous Estimation-of-Distribution Algorithms. <b>2008</b> , 185, 1246-1264	29

#### (2009-2008)

1461	Metabolic rlux analysis in Escherichia coli by integrating isotopic dynamic and isotopic stationary 13C labeling data. <b>2008</b> , 99, 1170-85	87
1460	Global and local real-coded genetic algorithms based on parent-centric crossover operators. <b>2008</b> , 185, 1088-1113	220
1459	GenMin: An enhanced genetic algorithm for global optimization. 2008, 178, 843-851	11
1458	Computationally efficient stochastic optimization using multiple realizations. 2008, 31, 399-417	35
1457	Adaptive evolutionary programming based on reinforcement learning. 2008, 178, 971-984	24
1456	Human-competitive lens system design with evolution strategies. <b>2008</b> , 8, 1439-1452	22
1455	Registration of CT and Intraoperative 3-D Ultrasound Images of the Spine Using Evolutionary and Gradient-Based Methods. <b>2008</b> , 12, 284-296	57
1454	. <b>2008</b> , 55, 3374-3380	13
1453	Understand behavior and performance of Real Coded Optimization Algorithms via NK-linkage model. <b>2008</b> ,	1
1452	High Performance Computing for Computational Science - VECPAR 2008. 2008,	3
1452 1451		2
1451		
1451	Levy walk evolution for global optimization. 2008,  Evolutionary Optimization of Feedback Controllers for Thermoacoustic Instabilities. 2008, 311-317	
1451 1450 1449	Levy walk evolution for global optimization. 2008,  Evolutionary Optimization of Feedback Controllers for Thermoacoustic Instabilities. 2008, 311-317	2
1451 1450 1449	Levy walk evolution for global optimization. 2008,  Evolutionary Optimization of Feedback Controllers for Thermoacoustic Instabilities. 2008, 311-317  Reverse Engineering of Self-Propelled Anguilliform Swimmers. 2008, 58, 203-211	2 2 0
1451 1450 1449 1448	Levy walk evolution for global optimization. 2008,  Evolutionary Optimization of Feedback Controllers for Thermoacoustic Instabilities. 2008, 311-317  Reverse Engineering of Self-Propelled Anguilliform Swimmers. 2008, 58, 203-211  Functionally specialized CMA-ES. 2008,  Evolutionary optimization of an anisotropic compliant surface for turbulent friction drag reduction.	2 2 0
1451 1450 1449 1448	Levy walk evolution for global optimization. 2008,  Evolutionary Optimization of Feedback Controllers for Thermoacoustic Instabilities. 2008, 311-317  Reverse Engineering of Self-Propelled Anguilliform Swimmers. 2008, 58, 203-211  Functionally specialized CMA-ES. 2008,  Evolutionary optimization of an anisotropic compliant surface for turbulent friction drag reduction. 2008, 9, N35	2 2 0 9

1443	Biomimetic Functionally Graded Materials: Synthesis by Impeller-Dry-Blending. <b>2009</b> , 3, 37-49	4
1442	Particle Swarm CMA Evolution Strategy for the optimization of multi-funnel landscapes. 2009,	16
1441	Shrinking Neighborhood Evolutiona novel stochastic algorithm for numerical optimization. 2009,	
1440	Continuous Variable Neighbourhood Search Algorithm Based on Evolutionary Metaheuristic Components: A Scalability Test. <b>2009</b> ,	4
1439	On empirical memory design, faster selection of bayesian factorizations and parameter-free gaussian EDAs. <b>2009</b> ,	18
1438	pCMALib. <b>2009</b> ,	6
1437	A memetic algorithm using local search chaining forblack-box optimization benchmarking 2009 for noise free functions. <b>2009</b> ,	1
1436	A memetic algorithm using local search chaining for black-box optimization benchmarking 2009 for noisy functions. <b>2009</b> ,	2
1435	An extended evolution strategy for the characterization of fracture conductivities from well tests. <b>2009</b> ,	
1434	Uncertainty handling CMA-ES for reinforcement learning. 2009,	6
1433	Hoeffding and Bernstein races for selecting policies in evolutionary direct policy search. 2009,	37
1432	A continuous variable neighbourhood search based on specialised EAs. 2009,	4
1431	Benchmarking a BI-population CMA-ES on the BBOB-2009 function testbed. <b>2009</b> ,	139
1430	A stochastic model for microtubule motors describes the in vivo cytoplasmic transport of human adenovirus. <b>2009</b> , 5, e1000623	48
1429	A continuous variable neighbourhood search based on specialised eas. 2009,	2
1428	Optimized groundwater drawdown in a subsiding urban mining area. <b>2009</b> , 365, 95-104	28
1427	Calibration of hydraulic parameters for large-scale vertical flow constructed wetlands. 2009, 369, 260-273	27
1426	A Method for Handling Uncertainty in Evolutionary Optimization With an Application to Feedback Control of Combustion. <b>2009</b> , 13, 180-197	193

### (2010-2009)

1425	Self-Adaptive Multimethod Search for Global Optimization in Real-Parameter Spaces. 2009, 13, 243-259	253
1424	Evolutionary Optimization of Dynamics Models in Sequential Monte Carlo Target Tracking. <b>2009</b> , 13, 879-894	7
1423	Efficient covariance matrix update for variable metric evolution strategies. <b>2009</b> , 75, 167-197	79
1422	Neuroevolution strategies for episodic reinforcement learning. 2009, 64, 152-168	42
1421	NSGA-II algorithm for multi-objective generation expansion planning problem. <b>2009</b> , 79, 622-628	124
1420	Short-term fault prediction based on support vector machines with parameter optimization by evolution strategy. <b>2009</b> , 36, 12383-12391	41
1419	Fast reconstruction of aerodynamic shapes using evolutionary algorithms and virtual nash strategies in a CFD design environment. <b>2009</b> , 232, 61-71	15
1418	Dynamic Optimization of Nonlinear Processes with an Enhanced Scatter Search Method. <b>2009</b> , 48, 4388-4401	88
1417	Hybrid Game Strategies for MO Problems in Aerospace Design. 2009,	
1416	Robust Multi-Objective and Multidisciplinary Design Optimisation of UAV Using Advanced Evolutionary Algorithms. <b>2009</b> ,	1
1415	Evolutionary optimization of kernel weights improves protein complex comembership prediction. <b>2009</b> , 6, 427-37	7
1414	Local Optima Avoidable Particle Swarm Optimization. 2009,	12
1413	Transition from particle swarm optimization to individual particle optimization. 2009,	4
1412	Development of ReflEXAFS data analysis for deeper surface structure studies. <b>2009</b> , 190, 012110	2
1411	References. 539-586	О
1410	Automated characterization of fracture conductivities from well tests inversion. 2009,	5
1409	The Term Structure of Interest Rates in a DSGE Model with Recursive Preferences. 2010,	28
1408	Exploring Parameter Space in Reinforcement Learning. <b>2010</b> , 1,	25

1407	Comparison between three optimization methods for the minimization of maximum bending load and springback in wiping die bending obtained by an experimental approach. <b>2010</b> , 48, 1185-1203		12
1406	A nature-inspired multi-objective optimisation strategy based on a new reduced space searching algorithm for the design of alloy steels. <b>2010</b> , 23, 660-675		30
1405	Design of active suspension and electronic stability program for rollover prevention. <b>2010</b> , 11, 147-153		55
1404	How to Maximize the Likelihood Function for a DSGE Model. <b>2010</b> , 35, 127-154		16
1403	The CMA-ES on Riemannian Manifolds to Reconstruct Shapes in 3-D Voxel Images. <b>2010</b> , 14, 227-245		17
1402	A new method for finite element model updating in structural dynamics. <b>2010</b> , 24, 2137-2159		30
1401	On the limitations of classical benchmark functions for evaluating robustness of evolutionary algorithms. <b>2010</b> , 215, 3222-3229		12
1400	Co-variance matrix adaptation evolution strategy for pavement backcalculation. <b>2010</b> , 24, 2177-2187		5
1399	Hybrid metaheuristics with evolutionary algorithms specializing in intensification and diversification: Overview and progress report. <b>2010</b> , 37, 481-497		123
1398	Bacterial foraging algorithm with varying population. <b>2010</b> , 100, 185-97		26
1397	Estimating learning rates in evolution and TDL: Results on a simple grid-world problem. 2010,		2
1396	Beating the World champion Evolutionary algorithm via REVAC tuning. 2010,		18
1395	. 2010,		1
1394	. 2010,		29
1393	Improving CMA-ES by random evaluation on the minor eigenspace. <b>2010</b> ,		1
1392	Memetic algorithms for continuous optimisation based on local search chains. <i>Evolutionary Computation</i> , <b>2010</b> , 18, 27-63	4.3	131
1391	Advanced Evolutionary Algorithms. <b>2010</b> , 39-132		
1390	A Parallel Algorithm for Solving Large Convex Minimax Problems. <b>2010,</b> 35-44		

1389 Computational Intelligence in Complex Decision Systems. <b>2010</b> ,	7
1388 Mirrored variants of the (1,2)-CMA-ES compared on the noisy BBOB-2010 testbed. <b>2010</b> ,	3
Large-Scale Global Optimization Using Cooperative Coevolution with Variable Interaction Learning. <b>2010</b> , 300-309	86
1386 Theoretical analysis of evolutionary computation on continuously differentiable functions. <b>2010</b> ,	3
1385 Mirrored variants of the (1,2)-CMA-ES compared on the noiseless BBOB-2010 testbed. <b>2010</b> ,	5
1384 Mirrored variants of the (1,4)-CMA-ES compared on the noisy BBOB-2010 testbed. <b>2010</b> ,	2
1383 Benchmarking CMA-EGS on the BBOB 2010 noiseless function testbed. <b>2010</b> ,	
1382 Benchmarking CMA-EGS on the BBOB 2010 noisy function testbed. <b>2010</b> ,	
Benchmarking a weighted negative covariance matrix update on the BBOB-2010 noiseless testbed. <b>2010</b> ,	22
Benchmarking a weighted negative covariance matrix update on the BBOB-2010 noisy testbed. <b>2010</b> ,	4
1379 Improved step size adaptation for the MO-CMA-ES. <b>2010</b> ,	26
Investigating the impact of sequential selection in the (1,4)-CMA-ES on the noiseless BBOB-2010 testbed. <b>2010</b> ,	4
1377 Mirrored variants of the (1,4)-CMA-ES compared on the noiseless BBOB-2010 testbed. <b>2010</b> ,	3
Investigating the impact of sequential selection in the (1,2)-CMA-ES on the noiseless BBOB-2010 testbed. <b>2010</b> ,	3
Optimization of high-reliability-based hydrological design problems by robust automatic sampling of critical model realizations. <b>2010</b> , 46,	19
Optimization and uncertainty assessment of strongly nonlinear groundwater models with high parameter dimensionality. <b>2010</b> , 46,	112
Consistent sparse representations of EEG ERP and ICA components based on wavelet and chirplet dictionaries. <b>2010</b> , 2010, 4014-9	1
1372 State-of-the-art and recent progress in phytoplankton succession modelling. <b>2010</b> , 18, 423-440	14

1371	State of the Art for Genetic Algorithms and Beyond in Water Resources Planning and Management. <b>2010</b> , 136, 412-432	410
1370	Homogeneous genetic algorithms. <b>2010</b> , 87, 476-490	3
1369	Double Shock Control Bump design optimization using hybridised evolutionary algorithms. 2010,	3
1368	Why is chemical synthesis and property optimization easier than expected?. <b>2011</b> , 13, 10048-70	49
1367	Intelligence decision systems in enterprise information management. <b>2011</b> , 24, 360-379	32
1366	Modeling activity-dependent plasticity in BCM spiking neural networks with application to human behavior recognition. <b>2011</b> , 22, 1952-66	21
1365	Fast Optimization of Electromagnetic Design Problems Using the Covariance Matrix Adaptation Evolutionary Strategy. <b>2011</b> , 59, 1275-1285	121
1364	Extended multistep outflow method for the accurate determination of soil hydraulic properties near water saturation. <b>2011</b> , 47,	53
1363	Algorithm fusion in forward-looking long-wave infrared imagery for buried explosive hazard detection. <b>2011</b> ,	2
1362	Design of Robust Space Trajectories. <b>2011</b> , 341-354	10
1362	High Performance Computing for Computational Science IVECPAR 2010. <b>2011</b> ,	6
1361	High Performance Computing for Computational Science LVECPAR 2010. 2011,  New Single-/Dual-Mode Design Formulas of the Rectangular Dielectric Resonator Antenna Using	6
1361 1360	High Performance Computing for Computational Science LVECPAR 2010. 2011,  New Single-/Dual-Mode Design Formulas of the Rectangular Dielectric Resonator Antenna Using Covariance Matrix Adaptation Evolutionary Strategy. 2011, 10, 734-737	6 23
1361 1360 1359	High Performance Computing for Computational Science LVECPAR 2010. 2011,  New Single-/Dual-Mode Design Formulas of the Rectangular Dielectric Resonator Antenna Using Covariance Matrix Adaptation Evolutionary Strategy. 2011, 10, 734-737  Aero-Structural Optimization of Morphing Airfoils for Adaptive Wings. 2011, 22, 1075-1089  Soil Hydraulic Functions Determined from Measurements of Air Permeability, Capillary Modeling,	6 23 50
1361 1360 1359 1358	High Performance Computing for Computational Science LVECPAR 2010. 2011,  New Single-/Dual-Mode Design Formulas of the Rectangular Dielectric Resonator Antenna Using Covariance Matrix Adaptation Evolutionary Strategy. 2011, 10, 734-737  Aero-Structural Optimization of Morphing Airfoils for Adaptive Wings. 2011, 22, 1075-1089  Soil Hydraulic Functions Determined from Measurements of Air Permeability, Capillary Modeling, and High-Dimensional Parameter Estimation. 2011, 10, 459-465	6 23 50 15
1361 1360 1359 1358	High Performance Computing for Computational Science LVECPAR 2010. 2011,  New Single-/Dual-Mode Design Formulas of the Rectangular Dielectric Resonator Antenna Using Covariance Matrix Adaptation Evolutionary Strategy. 2011, 10, 734-737  Aero-Structural Optimization of Morphing Airfoils for Adaptive Wings. 2011, 22, 1075-1089  Soil Hydraulic Functions Determined from Measurements of Air Permeability, Capillary Modeling, and High-Dimensional Parameter Estimation. 2011, 10, 459-465  . 2011,	6 23 50 15

1353 The Term Structure of Interest Rates in a DSGE Model with Recursive Preferences. **2011**,

1352	Likelihood Inference in Non-Linear Term Structure Models: The Importance of the Zero Lower Bound. <b>2011</b> ,	7
1351	Non-Linear DSGE Models and the Central Difference Kalman Filter. <b>2011</b> ,	
1350	A Survey on Policy Search for Robotics. <b>2011</b> , 2, 1-142	212
1349	Autonomous Self-Reconfiguration of Modular Robots by Evolving a Hierarchical Mechanochemical Model. <b>2011</b> , 6, 43-54	45
1348	. <b>2011</b> , 15, 133-150	32
1347	Modeling proton transfer to charged silver electrodes. <b>2011</b> , 56, 10632-10644	18
1346	Quantum-inspired space search algorithm (QSSA) for global numerical optimization. <b>2011</b> , 218, 2516-2532	19
1345	Covariance matrix self-adaptation evolution strategies and other metaheuristic techniques for neural adaptive learning. <b>2011</b> , 15, 1483-1495	2
1344	Memetic algorithms based on local search chains for large scale continuous optimisation problems: MA-SSW-Chains. <b>2011</b> , 15, 2201-2220	73
1343	Restart particle swarm optimization with velocity modulation: a scalability test. <b>2011</b> , 15, 2221-2232	41
1342	Hybrid-Game Strategies for multi-objective design optimization in engineering. <b>2011</b> , 47, 189-204	26
1341	Neuroevolutionary reinforcement learning for generalized control of simulated helicopters. <b>2011</b> , 4, 219-241	15
1340	Design of a rollover prevention controller with differential game theory and a coevolutionary genetic algorithm. <b>2011</b> , 25, 1565-1571	6
1339	Genetic algorithm with automatic termination and search space rotation. <b>2011</b> , 3, 111-127	9
1338	Building gene expression profile classifiers with a simple and efficient rejection option in R. <b>2011</b> , 12 Suppl 13, S3	4
1337	A calibration strategy for dynamic succession models including several phytoplankton groups. <b>2011</b> , 26, 697-710	29
1336	Shape optimization for drag reduction in linked bodies using evolution strategies. <b>2011</b> , 89, 1224-1231	28

1335	Increasing pattern recognition accuracy for chemical sensing by evolutionary based drift compensation. <b>2011</b> , 32, 1594-1603	45
1334	A separability detection approach to cooperative particle swarm optimization. 2011,	3
1333	Designing artificial tetris players with evolution strategies and racing. 2011,	
1332	Registration of CT to 3D ultrasound using near-field fiducial localization: A feasibility study. <b>2011</b> , 16, 54-70	2
1331	A robust memetic algorithm with self-stopping capabilities. <b>2011</b> ,	2
1330	Approximating n-player behavioural strategy nash equilibria using coevolution. 2011,	1
1329	Double-shock control bump design optimization using hybridized evolutionary algorithms. <b>2011</b> , 225, 1175-1192	5
1328	An Investigation on Rollover Prevention Systems: Unified Chassis Control versus Electronic Stability Control with Active Anti-Roll Bar. <b>2011</b> , 225, 1-14	15
1327	Improved Population-Based Incremental Learning in Continuous Spaces. <b>2011</b> , 77-86	14
1326	Applying evolution strategies for biped locomotion learning in RoboCup 3D Soccer Simulation. <b>2011</b> ,	3
1325	Tuning parameters across mixed dimensional instances. 2011,	6
1324	Reinforcement Learning in Continuous State and Action Spaces. <b>2012</b> , 207-251	60
1323	Application of evolutionary methods to 3D geoscience modelling. 2012,	1
1322	Bayesian uncertainty quantification and propagation in molecular dynamics simulations: a high performance computing framework. <b>2012</b> , 137, 144103	131
1321	Towards more intelligent adaptive video game agents. 2012,	1
1320	CMA-TWEANN. <b>2012</b> ,	6
1319	Analysis of a natural gradient algorithm on monotonic convex-quadratic-composite functions. 2012,	11
1318	The experimental study of population-based parameter optimization algorithms on rule-based ecological modelling. <b>2012</b> ,	

1317	Reaching optimally over the workspace: A machine learning approach. 2012,	О
1316	Data-Driven Parameter Optimization of Two-Degree-of-Freedom Controllers Approximated by Laguerre Expansions* *This work was partially supported by JSPS Grant in Aid for Scientific Research (B) 23360183 and (C) 22560442 <b>2012</b> , 45, 280-285	O
1315	Challenging SMT solvers to verify neural networks. <b>2012</b> , 25, 117-135	43
1314	Parameter estimation using meta-heuristics in systems biology: a comprehensive review. <b>2012</b> , 9, 185-202	85
1313	On the Design of Constraint Covariance Matrix Self-Adaptation Evolution Strategies Including a Cardinality Constraint. <b>2012</b> , 16, 578-596	21
1312	A Cryptographic Scheme Based on Chaos Synchronization and Genetic Engineering Algorithm. <b>2012</b> , 249-270	O
1311	CMA-PAES: Pareto archived evolution strategy using covariance matrix adaptation for Multi-Objective Optimisation. <b>2012</b> ,	4
1310	Evolutionary computation and agent-based modeling: biologically-inspired approaches for understanding complex social systems. <b>2012</b> , 18, 356-373	11
1309	An Evolutionary Strategy for Surrogate-Based Multiobjective Optimization. 2012,	6
1308	Region based memetic algorithm with LS chaining. <b>2012</b> ,	4
1307	Three variants of three Stage Optimal Memetic Exploration for handling non-separable fitness landscapes. <b>2012</b> ,	2
1306	A Developmental Approach to Structural Self-Organization in Reservoir Computing. <b>2012</b> , 4, 273-289	20
1305	Combining Modifications to Multinomial Naive Bayes for Text Classification. <b>2012</b> , 114-125	
1304	High-dimensional posterior exploration of hydrologic models using multiple-try DREAM(ZS) and high-performance computing. <b>2012</b> , 48,	288
1303	A hypothesis-driven approach to optimize field campaigns. <b>2012</b> , 48,	35
1302	Improved understanding of the searching behavior of ant colony optimization algorithms applied to the water distribution design problem. <b>2012</b> , 48,	29
1301	Learning and Intelligent Optimization. 2012,	2
1300	Distributed Computing and Artificial Intelligence. 2012,	

1299	Theoretical Foundation for CMA-ES from Information Geometry Perspective. <b>2012</b> , 64, 698-716	24
1298	Industrial Applications of Evolutionary Algorithms. <b>2012</b> ,	9
1297	Reduced Data Communication for Parallel CMA-ES for REACTS. 2012,	
1296	Eigenspace sampling in the mirrored variant of (1, )-CMA-ES. <b>2012</b> ,	3
1295	Information Retrieval Technology. <b>2012</b> ,	
1294	Artificial Evolution. 2012,	1
1293	From Humans to Humanoids: the Optimal Control Framework. <b>2012</b> , 3,	8
1292	OPTIMIZATION OF NON-UNIFORM CIRCULAR ARRAYS WITH COVARIANCE MATRIX ADAPTATION EVOLUTIONARY STRATEGY. <b>2012</b> , 28, 113-126	3
1291	C-start: optimal start of larval fish. <b>2012</b> , 698, 5-18	80
1290	Radical basis function neural network for a novel tactile sensor design. <b>2012</b> ,	О
1289	An investigation into vehicle rollover prevention by coordinated control of active anti-roll bar and electronic stability program. <b>2012</b> , 10, 275-287	49
1288	A hybrid stock selection model using genetic algorithms and support vector regression. <b>2012</b> , 12, 807-818	131
1287	Model fusion using fuzzy aggregation: Special applications to metal properties. <b>2012</b> , 12, 1678-1692	4
1286	Diversity Guided Evolutionary Programming: A novel approach for continuous optimization. <b>2012</b> , 12, 1693-1707	21
1285	A Differential Covariance Matrix Adaptation Evolutionary Algorithm for real parameter optimization. <b>2012</b> , 182, 199-219	66
1284	Ockham Razor in memetic computing: Three stage optimal memetic exploration. <b>2012</b> , 188, 17-43	114
1283	Numerical assessment of metamodelling strategies in computationally intensive optimization. <b>2012</b> , 34, 67-86	104
1282	Biomechanically constrained groupwise ultrasound to CT registration of the lumbar spine. <b>2012</b> , 16, 662-74	52

# (2013-2012)

1281	A stable and real-time nonlinear elastic approach to simulating guidewire and catheter insertions based on Cosserat rod. <b>2012</b> , 59, 2211-8	50
1280	Design of a robust controller for rollover prevention with active suspension and differential braking. <b>2012</b> , 26, 213-222	66
1279	Robust multidisciplinary UAS design optimisation. <b>2012</b> , 45, 433-450	7
1278	Well placement optimization with the covariance matrix adaptation evolution strategy and meta-models. <b>2012</b> , 16, 75-92	87
1277	A natural evolution strategy with asynchronous strategy updates. 2013,	4
1276	Computational results for an automatically tuned CMA-ES with increasing population size on the CECIDS benchmark set. <b>2013</b> , 17, 1031-1046	22
1275	Application of covariance matrix adaptation Bvolution strategy to optimal control of hepatitis B infection. <b>2013</b> , 23, 881-894	9
1274	Numerical Methods for Metamaterial Design. 2013,	27
1273	Parameter and predictive outcomes of model simplification. <b>2013</b> , 49, 3952-3977	28
1272	Search for a grand tour of the jupiter galilean moons. <b>2013</b> ,	16
1271	Evolutionary pattern design for copolymer directed self-assembly. <b>2013</b> , 9, 11467	51
1270	Telescoping strategies for improved parameter estimation of environmental simulation models. <b>2013</b> , 60, 156-167	1
1269	An improved PSO algorithm with a territorial diversity-preserving scheme and enhanced exploration Exploitation balance. <b>2013</b> , 11, 1-15	65
1268	A CMA-ES super-fit scheme for the re-sampled inheritance search. <b>2013</b> ,	20
1267	. 2013,	60
1266	Indicator geostatistics for reconstructing Baton Rouge aquifer-fault hydrostratigraphy, Louisiana, USA. <b>2013</b> , 21, 1731-1747	18
1265	Re-sampled inheritance search: high performance despite the simplicity. <b>2013</b> , 17, 2235-2256	25
1264	The mouse retina in 3D: quantification of vascular growth and remodeling. <b>2013</b> , 5, 1426-38	36

1263	Dynamically updated region based memetic algorithm for the 2013 CEC Special Session and Competition on Real Parameter Single Objective Optimization. <b>2013</b> ,	11
1262	Coevolving Game-Playing Agents: Measuring Performance and Intransitivities. 2013, 17, 213-226	49
1261	Benchmark results for a simple hybrid algorithm on the CEC 2013 benchmark set for real-parameter optimization. <b>2013</b> ,	19
1260	Re-sampling search: A seriously simple memetic approach with a high performance. <b>2013</b> ,	2
1259	Kidney segmentation in ultrasound via genetic initialization and Active Shape Models with rotation correction. <b>2013</b> ,	10
1258	Optimal shapes for anguilliform swimmers at intermediate Reynolds numbers. <b>2013</b> , 722,	51
1257	Exploiting Rotational Symmetry for the Design of Ultra-Wideband Planar Phased Array Layouts. <b>2013</b> , 61, 176-184	17
1256	The Wind Driven Optimization Technique and its Application in Electromagnetics. 2013, 61, 2745-2757	200
1255	A parallel multi-objective optimization algorithm for the calibration of mathematical models. <b>2013</b> , 8, 13-25	10
1254	Parallel memetic structures. 2013, 227, 60-82	87
1253	Parameterization for distributed watershed modeling using national data and evolutionary algorithm. <b>2013</b> , 58, 80-90	27
1252	An Agent based Modeling for the Gravity Irrigation Management. <b>2013</b> , 19, 804-813	2
1251	An inference about the length of the time-to-build period. <b>2013</b> , 33, 42-54	1
1250	Adapting granular materials through artificial evolution. <b>2013</b> , 12, 326-31	93
1249	Antiviral therapy using a fuzzy controller optimized by modified evolutionary algorithms: a comparative study. <b>2013</b> , 23, 1801-1813	12
1248	On the equivalences and differences of evolutionary algorithms. <b>2013</b> , 26, 2397-2407	35
1247	The watchmaker is blind but he is not stupid: comment on "How life changes itself: the Read-Write (RW) genome" by James Shapiro. <b>2013</b> , 10, 331-2	1
1246	Bounding the population size of IPOP-CMA-ES on the noiseless BBOB testbed. <b>2013</b> ,	6

### (2013-2013)

1245	Surrogate POD models for building forming limit diagrams of parameterized sheet metal forming applications. <b>2013</b> ,	0
1244	Objective improvement in information-geometric optimization. 2013,	2
1243	Intensive surrogate model exploitation in self-adaptive surrogate-assisted cma-es (saacm-es). 2013,	23
1242	Bi-population CMA-ES agorithms with surrogate models and line searches. <b>2013</b> ,	22
1241	An evolutionary spline fitting algorithm for identifying filamentous cyanobacteria. 2013,	
1240	Big Bang - Big Crunch Optimization Algorithm with Local Directional Moves. <b>2013</b> ,	4
1239	Surrogate-Assisted Multiobjective Evolutionary Algorithms for Structural Shape and Sizing Optimisation. <b>2013</b> , 2013, 1-13	7
イココス	Stochastic optimal control methods for investigating the power of morphological computation. <b>2013</b> , 19, 115-31	13
1237	Selection hyper-heuristics in dynamic environments. <b>2013</b> , 64, 1753-1769	30
	ALC 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1236	Alignment-free genome tree inference by learning group-specific distance metrics. <b>2013</b> , 5, 1470-84	13
1235	Variable-based IPAES with adaptive fertility rate. <b>2013</b> ,	13
1235		
1235 1234 1233	Variable-based PAES with adaptive fertility rate. 2013,  Cd (II) and Zn (II) biosorption on Lactarius piperatus macrofungus: Equilibrium isotherm and kinetic studies. 2013, 33, n/a-n/a  Super-fit Multicriteria Adaptive Differential Evolution. 2013,	1
1235 1234 1233	Variable-based PAES with adaptive fertility rate. 2013,  Cd (II) and Zn (II) biosorption on Lactarius piperatus macrofungus: Equilibrium isotherm and kinetic studies. 2013, 33, n/a-n/a  Super-fit Multicriteria Adaptive Differential Evolution. 2013,  Using reinforcement learning to examine dynamic attention allocation during reading. 2013, 37, 1507-40	5
1235 1234 1233 1232	Variable-based PAES with adaptive fertility rate. 2013,  Cd (II) and Zn (II) biosorption on Lactarius piperatus macrofungus: Equilibrium isotherm and kinetic studies. 2013, 33, n/a-n/a  Super-fit Multicriteria Adaptive Differential Evolution. 2013,  Using reinforcement learning to examine dynamic attention allocation during reading. 2013, 37, 1507-40  A robust search paradigm with Enhanced Vine Creeping Optimization. 2013, 45, 225-244	1 5 28
1235 1234 1233 1232 1231	Variable-based IPAES with adaptive fertility rate. 2013,  Cd (II) and Zn (II) biosorption on Lactarius piperatus macrofungus: Equilibrium isotherm and kinetic studies. 2013, 33, n/a-n/a  Super-fit Multicriteria Adaptive Differential Evolution. 2013,  Using reinforcement learning to examine dynamic attention allocation during reading. 2013, 37, 1507-40  A robust search paradigm with Enhanced Vine Creeping Optimization. 2013, 45, 225-244  Parameter estimation and predictive uncertainty in stochastic inverse modeling of groundwater flow: Comparing null-space Monte Carlo and multiple starting point methods. 2013, 49, 536-553	1 5 28
1235 1234 1233 1232 1231 1230	Variable-based PAES with adaptive fertility rate. 2013,  Cd (II) and Zn (II) biosorption on Lactarius piperatus macrofungus: Equilibrium isotherm and kinetic studies. 2013, 33, n/a-n/a  Super-fit Multicriteria Adaptive Differential Evolution. 2013,  Using reinforcement learning to examine dynamic attention allocation during reading. 2013, 37, 1507-40  A robust search paradigm with Enhanced Vine Creeping Optimization. 2013, 45, 225-244  Parameter estimation and predictive uncertainty in stochastic inverse modeling of groundwater	1 5 28 11 2

1227	Design and testing of imperfection-insensitive monocoque cylindrical shells. 2013,	3
1226	Likelihood Inference in Non-Linear Term Structure Models: The Importance of the Lower Bound. <b>2013</b> ,	2
1225	Learned graphical models for probabilistic planning provide a new class of movement primitives. <b>2012</b> , 6, 97	14
1224	Learned parametrized dynamic movement primitives with shared synergies for controlling robotic and musculoskeletal systems. <b>2013</b> , 7, 138	39
1223	On the effectiveness of nature-inspired metaheuristic algorithms for performing phase equilibrium thermodynamic calculations. <b>2014</b> , 2014, 374510	8
1222	Annlisis e Implementaciin de Algoritmos Evolutivos para la Optimizaciin de Modelos en Ingenierra Civil (Implementation of Evolutionary Algorithms for Optimization of Models in Civil Engineering). <b>2014</b> ,	
1221	A Guided Mutation Operator for Dynamic Diversity Enhancement in Evolutionary Strategies. <b>2014</b> , 4, 20-39	
1220	Shape-based object retrieval by contour segment matching. <b>2014</b> ,	13
1219	Convergence analysis of evolutionary algorithms that are based on the paradigm of information geometry. <i>Evolutionary Computation</i> , <b>2014</b> , 22, 679-709	28
1218	Picking versus stacking in a modern microearthquake location: Comparison of results from a surface passive seismic monitoring array in Oklahoma. <b>2014</b> , 79, KS61-KS68	31
1217	A topological niching covariance matrix adaptation for multimodal optimization. 2014,	6
1216	A CMA-ES-based 2-stage memetic framework for solving constrained optimization problems. <b>2014</b> ,	1
1215	Is MO-CMA-ES superior to NSGA-II for the evolution of multi-objective neuro-controllers?. <b>2014</b> ,	4
1214	On the selection of fitness landscape analysis metrics for continuous optimization problems. <b>2014</b> ,	8
1213	Stochastic Methods for Single Objective Global Optimization. <b>2014</b> , 63-112	
1212	Multiobjective Design Optimization Using Nash Games. <b>2014</b> , 583-641	5
1211	Computational Models to Decipher Cell-Signaling Pathways. <b>2014</b> , 269-284	2
1210	Latent space policy search for robotics. 2014,	13

1209 Protein Conformation Motion Modeling Using Sep-CMA-ES. 2014,

Preference Learning for Move Prediction and Evaluation Function Approximation in Othello. <b>2014</b> , 6, 300-313	13
Online model racing based on extreme performance. <b>2014</b> ,	4
1206 Evolved spacecraft trajectories for low earth orbit. <b>2014</b> ,	O
1205 A computationally efficient limited memory CMA-ES for large scale optimization. <b>2014</b> ,	25
1204 Comparison-based natural gradient optimization in high dimension. <b>2014</b> ,	19
Infrared broadband quarter-wave and half-wave plates synthesized from anisotropic B\(\textit{B}\)ier metasurfaces. <b>2014</b> , 22, 32371-83	27
1202 Rolling horizon methods for games with continuous states and actions. <b>2014</b> ,	5
1201 Inverse modelling of cosmic-ray soil moisture for field-scale soil hydraulic parameters. <b>2014</b> , 65, 876-886	16
1200 . <b>2014</b> , 18, 793-806	20
A weighted cost function to deal with the muscle force sharing problem in injured subjects: A single case study. <b>2014</b> , 228, 241-251	2
1198 An analysis on separability for Memetic Computing automatic design. <b>2014</b> , 265, 1-22	76
Repairing the crossover rate in adaptive differential evolution. <b>2014</b> , 15, 149-168	79
Irrigation scheduling of a classical gravity network based on the Covariance Matrix Adaptation II Evolutionary Strategy algorithm. <b>2014</b> , 102, 64-72	23
A unified ant colony optimization algorithm for continuous optimization. <b>2014</b> , 234, 597-609	84
Simulation-Based Optimization of Multistage Separation Process in Offshore Oil and Gas Production Facilities. <b>2014</b> , 53, 8810-8820	16
The Dynamics of Self-Adaptive Multirecombinant Evolution Strategies on the General Ellipsoid Model. <b>2014</b> , 18, 764-778	16
1192 Grey Wolf Optimizer. <b>2014</b> , 69, 46-61	6256

1191	Comparative study of Cd(II) biosorption on cultivated Agaricus bisporus and wild Lactarius piperatus based biocomposites. Linear and nonlinear equilibrium modelling and kinetics. <b>2014</b> , 45, 921-929	45
1190	Wireless networked learning control system based on Kalman filter and biogeography-based optimization method. <b>2014</b> , 36, 224-236	6
1189	Nonlinear time-series modeling of unconfined groundwater head. <b>2014</b> , 50, 8330-8355	35
1188	Multi-strategy coevolving aging particle optimization. <b>2014</b> , 24, 1450008	54
1187	Evolving design rules for the inverse granular packing problem. <b>2014</b> , 10, 3708-15	42
1186	Parameter estimation for crop growth model using evolutionary and bio-inspired algorithms. <b>2014</b> , 23, 474-482	11
1185	Evolutionary Optimization of Directed Self-Assembly of Triblock Copolymers on Chemically Patterned Substrates <b>2014</b> , 3, 747-752	55
1184	Search-Based Software Engineering. <b>2014</b> ,	4
1183	A modified Covariance Matrix Adaptation Evolution Strategy with adaptive penalty function and restart for constrained optimization. <b>2014</b> , 41, 7077-7094	33
1182	The Synthesis of Wide- and Multi-Bandgap Electromagnetic Surfaces With Finite Size and Nonuniform Capacitive Loading. <b>2014</b> , 62, 1962-1972	17
1181	Black box optimization for automatic speech recognition. 2014,	10
1180	Multithreaded Parallel Dual Population Genetic Algorithm (MPDPGA) for unconstrained function optimizations on multi-core system. <b>2014</b> , 243, 936-949	12
1179	Hybrid biogeography-based evolutionary algorithms. <b>2014</b> , 30, 213-224	33
1178	Engineering optimization by means of an improved constrained differential evolution. <b>2014</b> , 268, 884-904	72
1177	PGS-COM: A hybrid method for constrained non-smooth black-box optimization problems: Brief review, novel algorithm and comparative evaluation. <b>2014</b> , 63, 108-139	48
1176	Optimization in Science and Engineering. 2014,	1
1175	Food model exploration through evolutionary optimisation coupled with visualisation: Application to the prediction of a milk gel structure. <b>2014</b> , 25, 67-77	4
1174	Region based memetic algorithm for real-parameter optimisation. <b>2014</b> , 262, 15-31	13

1173	Comparing evolutionary algorithms and particle filters for Markerless Human Motion Capture. <b>2014</b> , 17, 153-166	16
1172	Constructive epistemic modeling of groundwater flow with geological structure and boundary condition uncertainty under the Bayesian paradigm. <b>2014</b> , 517, 105-119	34
1171	Comparative performance of meta-heuristic algorithms for mass minimisation of trusses with dynamic constraints. <b>2014</b> , 75, 1-13	65
1170	Using self-adaptive optimisation methods to perform sequential optimisation for low-energy building design. <b>2014</b> , 81, 18-29	19
1169	Evolution on trees: On the design of an evolution strategy for scenario-based multi-period portfolio optimization under transaction costs. <b>2014</b> , 17, 74-87	8
1168	Constitutive modeling of the thermo-mechanical fatigue and lifetime behavior of the cast steel 1.4849. <b>2014</b> , 64, 631-639	9
1167	Estimating the prevalence of socially sensitive behaviors: attributing guilty and innocent noncompliance with the single sample count method. <b>2014</b> , 19, 334-55	9
1166	Real-time magnetic dipole detection with single particle optimization. <b>2014</b> , 23, 460-473	10
1165	Optimal morphokinematics for undulatory swimmers at intermediate Reynolds numbers. <b>2015</b> , 775, 178-188	29
1164	Development of Backtracking Search Optimization Algorithm Toolkit in LabVIEW[12015, 57, 241-248	10
1163	Investment lags and macroeconomic dynamics. <b>2015</b> , 15,	
1162	Modified Covariance Matrix Adaptation Evolution Strategy algorithm for constrained optimization under uncertainty, application to rocket design. <b>2015</b> , 6, A1	14
1161	Unraveling the molecular architecture of a G protein-coupled receptor/Earrestin/Erk module complex. <b>2015</b> , 5, 10760	40
1160	Bayesian Chance-Constrained Hydraulic Barrier Design under Geological Structure Uncertainty. <b>2015</b> , 53, 908-19	8
1159	Considering Surface Roughness Effects in a Triangular Pore Space Model for Unsaturated Hydraulic Conductivity. <b>2015</b> , 14, vzj2014.09.0121	11
1158	A Heuristic Dynamically Dimensioned Search with Sensitivity Information (HDDS-S) and Application to River Basin Management. <b>2015</b> , 7, 2214-2238	5
1157	Unbiased Quantitative Models of Protein Translation Derived from Ribosome Profiling Data. <b>2015</b> , 11, e1004336	22
1156	Predictive simulation generates human adaptations during loaded and inclined walking. <b>2015</b> , 10, e0121407	58

1155	OPTIMAL SENSOR PLACEMENT FOR THE ESTIMATION OF TURBULENCE MODEL PARAMETERS IN CFD. <b>2015</b> , 5, 545-568	8
1154	Cloud Particles Evolution Algorithm. <b>2015</b> , 2015, 1-21	2
1153	Diversity-Based Dual-Population Genetic Algorithm (DPGA): A Review. <b>2015</b> , 219-229	
1152	On the performances of the flower pollination algorithm Qualitative and quantitative analyses. <b>2015</b> , 34, 349-371	92
1151	Multi-objective optimization and decision making for power dispatch of a large-scale integrated energy system with distributed DHCs embedded. <b>2015</b> , 154, 369-379	67
1150	Regularized covariance estimation for weighted maximum likelihood policy search methods. <b>2015</b> ,	6
1149	Cooperative Co-evolution with Formula Based Grouping and CMA for Large Scale Optimization. <b>2015</b> ,	2
1148	An Asynchronous Implementation of the Limited Memory CMA-ES. 2015,	O
1147	A minimum population search hybrid for large scale global optimization. <b>2015</b> ,	9
1146	Global supervised descent method. <b>2015</b> ,	108
1146 1145	Global supervised descent method. 2015,  Automation of system building for state-of-the-art large vocabulary speech recognition using evolution strategy. 2015,	108
•	Automation of system building for state-of-the-art large vocabulary speech recognition using	
1145	Automation of system building for state-of-the-art large vocabulary speech recognition using evolution strategy. <b>2015</b> ,  Bayesian experimental design for identification of model propositions and conceptual model	9
1145	Automation of system building for state-of-the-art large vocabulary speech recognition using evolution strategy. 2015,  Bayesian experimental design for identification of model propositions and conceptual model uncertainty reduction. 2015, 83, 148-159	9
1145 1144 1143	Automation of system building for state-of-the-art large vocabulary speech recognition using evolution strategy. 2015,  Bayesian experimental design for identification of model propositions and conceptual model uncertainty reduction. 2015, 83, 148-159  Terminating evolutionary algorithms at their steady state. 2015, 61, 489-515  [4U: A high performance computing framework for Bayesian uncertainty quantification of complex	9 12 1
1145 1144 1143	Automation of system building for state-of-the-art large vocabulary speech recognition using evolution strategy. 2015,  Bayesian experimental design for identification of model propositions and conceptual model uncertainty reduction. 2015, 83, 148-159  Terminating evolutionary algorithms at their steady state. 2015, 61, 489-515  Q4U: A high performance computing framework for Bayesian uncertainty quantification of complex models. 2015, 284, 1-21	9 12 1 69
1145 1144 1143 1142 1141	Automation of system building for state-of-the-art large vocabulary speech recognition using evolution strategy. 2015,  Bayesian experimental design for identification of model propositions and conceptual model uncertainty reduction. 2015, 83, 148-159  Terminating evolutionary algorithms at their steady state. 2015, 61, 489-515  [4U: A high performance computing framework for Bayesian uncertainty quantification of complex models. 2015, 284, 1-21  Designing benchmark problems for large-scale continuous optimization. 2015, 316, 419-436  Genetic algorithm optimization of point charges in force field development: challenges and	9 12 1 69 82

1137	X-TMCMC: Adaptive kriging for Bayesian inverse modeling. <b>2015</b> , 289, 409-428	62
1136	Learning to Walk Fast: Optimized Hip Height Movement for Simulated and Real Humanoid Robots. <b>2015</b> , 80, 555-571	10
1135	Ordinal regression by a generalized force-based model. <b>2015</b> , 45, 844-57	5
1134	Exploiting Task-Based Parallelism in Bayesian Uncertainty Quantification. <b>2015</b> , 532-544	2
1133	New optimisation methodology to uncover robust low energy designs that accounts for occupant behaviour or other unknowns. <b>2015</b> , 2, 59-68	18
1132	Backtracking Search Algorithm with three constraint handling methods for constrained optimization problems. <b>2015</b> , 42, 7831-7845	49
1131	Hierarchical temporal graphical model for head pose estimation and subsequent attribute classification in real-world videos. <b>2015</b> , 136, 128-145	14
1130	A UNIVERSAL SFDM HALO MASS FOR THE ANDROMEDA AND MILKY WAYED DSPHS?. <b>2015</b> , 807, 116	4
1129	Imperfection-insensitive axially loaded thin cylindrical shells. <b>2015</b> , 62, 39-51	40
1128	State estimation of nonlinear dynamic systems using weighted variance-based adaptive particle swarm optimization. <b>2015</b> , 34, 1-17	19
1127	Constrained differential evolution with multiobjective sorting mutation operators for constrained optimization. <b>2015</b> , 33, 207-222	27
1126	A Hybrid Approach for Efficient Modeling of Medium-Frequency Propagation in Coal Mines. <b>2015</b> , 174, 164-176	2
1125	Variability and Constancy in Cellular Growth of Arabidopsis Sepals. <b>2015</b> , 169, 2342-58	28
1124	Extended Differential Grouping for Large Scale Global Optimization with Direct and Indirect Variable Interactions. <b>2015</b> ,	57
1123	Injection, Saturation and Feedback in Meta-Heuristic Interactions. 2015,	2
1122	Evolving Strategies for Social Innovation Games. 2015,	2
1121	A CMA-ES with Multiplicative Covariance Matrix Updates. <b>2015</b> ,	9
1120	Structure discovery of deep neural network based on evolutionary algorithms. <b>2015</b> ,	29

1119	An efficient simulation-optimization coupling for management of coastal aquifers. <b>2015</b> , 23, 1167-1179	12
1118	Improved Electromagnetics Optimization: The covariance matrix adaptation evolutionary strategy <b>2015</b> , 57, 48-59	22
1117	A modified ABC algorithm for the stage shop scheduling problem. <b>2015</b> , 28, 81-89	39
1116	Simulation of forced deformable bodies interacting with two-dimensional incompressible flows: Application to fish-like swimming. <b>2015</b> , 51, 88-109	10
1115	Multiobjective optimisation on a budget: Exploring surrogate modelling for robust multi-reservoir rules generation under hydrological uncertainty. <b>2015</b> , 69, 396-413	44
1114	A review of foundational methods for checking the structural identifiability of models: Results for rainfall-runoff. <b>2015</b> , 520, 1-16	46
1113	A sinusoidal differential evolution algorithm for numerical optimisation. <b>2015</b> , 27, 99-126	128
1112	Reaction precipitation of amorphous calcium phosphate: Population balance modelling and kinetics. <b>2015</b> , 93, 278-286	22
1111	Parameter Control in Evolutionary Algorithms: Trends and Challenges. <b>2015</b> , 19, 167-187	268
1110	Celebrating Soft Matter's 10th Anniversary: toward jamming by design. <b>2015</b> , 11, 12-27	125
1109	Parallel Inverse Modeling and Uncertainty Quantification for Computationally Demanding Groundwater-Flow Models Using Covariance Matrix Adaptation. <b>2015</b> , 20, 04014087	20
1108	Deep learning in neural networks: an overview. <b>2015</b> , 61, 85-117	8538
1107	Stochastic Fractal Search: A powerful metaheuristic algorithm. <b>2015</b> , 75, 1-18	289
1107	Adaptive ranking mutation operator based differential evolution for constrained optimization	289
,	Adaptive ranking mutation operator based differential evolution for constrained optimization.	
1106	Adaptive ranking mutation operator based differential evolution for constrained optimization.  2015, 45, 716-27  Optimization of Allocation and Launch Conditions of Multiple Missiles for Three-Dimensional	125
1106	Adaptive ranking mutation operator based differential evolution for constrained optimization.  2015, 45, 716-27  Optimization of Allocation and Launch Conditions of Multiple Missiles for Three-Dimensional Collaborative Interception of Ballistic Targets. 2016, 2016, 1-14	125

Robust patella motion tracking using intensity-based 2D-3D registration on dynamic bi-plane fluoroscopy: towards quantitative assessment in MPFL reconstruction surgery. <b>2016</b> ,	4
Optimal observation network design for conceptual model discrimination and uncertainty reduction. <b>2016</b> , 52, 1245-1264	20
1099 FIP effect for minor heavy solar wind ions as seen with SOHO/CELIAS/MTOF. <b>2016</b> ,	
Automated structure discovery and parameter tuning of neural network language model based on evolution strategy. <b>2016</b> ,	5
A Competitive QUasi-Affine TRansformation Evolutionary (C-QUATRE) Algorithm for global optimization. <b>2016</b> ,	17
MOEA/D using covariance matrix adaptation evolution strategy for complex multi-objective optimization problems. <b>2016</b> ,	3
Perspective: Evolutionary design of granular media and block copolymer patterns. <b>2016</b> , 4, 053209	25
1094 Model-Based Relative Entropy Stochastic Search. <b>2016</b> ,	8
Omnidirectional walk design of humanoid robots using layered learning method based on CMA-ES. <b>2016</b> ,	
1092 Deep spiking networks for model-based planning in humanoids. <b>2016</b> ,	5
1092 Deep spiking networks for model-based planning in humanoids. 2016,  1091 . 2016,	5 8
1091 . 2016,	8
1091 . 2016, 1090 Task-based limb optimization for legged robots. 2016,	8
1091 . 2016,  1090 Task-based limb optimization for legged robots. 2016,  1089 Non-parametric contextual stochastic search. 2016,  Testing united multi-operator evolutionary algorithms-II on single objective optimization problems.	8 14 0
1091 . 2016,  1090 Task-based limb optimization for legged robots. 2016,  1089 Non-parametric contextual stochastic search. 2016,  1088 Testing united multi-operator evolutionary algorithms-II on single objective optimization problems. 2016,	8 14 0
1091 . 2016,  1090 Task-based limb optimization for legged robots. 2016,  1089 Non-parametric contextual stochastic search. 2016,  1088 Testing united multi-operator evolutionary algorithms-II on single objective optimization problems.  1087 . 2016,	8 14 0 20

1083	Projection-Based Restricted Covariance Matrix Adaptation for High Dimension. 2016,	13
1082	Smart-sensor placement optimization under energy objectives. <b>2016</b> ,	
1081	Advanced Space Vehicle Design Taking into Account Multidisciplinary Couplings and Mixed Epistemic/Aleatory Uncertainties. <b>2016</b> , 1-48	4
1080	Identification Methods for Structural Health Monitoring. 2016,	8
1079	Learning to school in the presence of hydrodynamic interactions. <b>2016</b> , 789, 726-749	63
1078	Thermoviscoelastic models for polyethylene thin films. <b>2016</b> , 20, 13-43	14
1077	Surface pinning explains the low heat transfer coefficient between water and a carbon nanotube film. <b>2016</b> , 100, 27-35	7
1076	Artificial Evolution. 2016,	О
1075	Application of an evolutionary algorithm for parameter optimization in a gully erosion model. <b>2016</b> , 80, 297-305	4
1074	Electrochemical battery model and its parameter estimator for use in a battery management system of plug-in hybrid electric vehicles. <b>2016</b> , 17, 493-508	6
1073	Expanding from Discrete Cartesian to Permutation Gene-pool Optimal Mixing Evolutionary Algorithms. <b>2016</b> ,	11
1072	A DIRECT-type approach for derivative-free constrained global optimization. <b>2016</b> , 65, 361-397	19
1071	The impact of standard and hard-coded parameters on the hydrologic fluxes in the Noah-MP land surface model. <b>2016</b> , 121, 10,676-10,700	64
1070	Population Size Adaptation for the CMA-ES Based on the Estimation Accuracy of the Natural Gradient. <b>2016</b> ,	9
1069	Region-based memetic algorithm with archive for multimodal optimisation. <b>2016</b> , 367-368, 719-746	11
1068	Experimental evaluation of collision avoidance system using state dependent Riccati equation technique. <b>2016</b> , 243-250	
1067	Social group optimization (SGO): a new population evolutionary optimization technique. <b>2016</b> , 2, 173-203	111
1066	A model-based fault diagnosis in a nonlinear bioreactor using an inverse problem approach and evolutionary algorithms. <b>2016</b> , 114, 18-29	8

# (2016-2016)

An Adaptive LIPM-based Dynamic Walk using Model Parameter Optimization on Humanoid Re <b>2016</b> , 30, 233-244	obots.
1064 Advancing X-ray scattering metrology using inverse genetic algorithms. <b>2016</b> , 15,	18
Virtual Experiments Guide Calibration Strategies for a Real-World Watershed Application of Coupled Surface-Subsurface Modeling. <b>2016</b> , 21, 04016043	1
Noisy Juxtacellular Stimulation In Vivo Leads to Reliable Spiking and Reveals High-Frequency Coding in Single Neurons. <b>2016</b> , 36, 11120-11132	22
1061 Optimization Methods in Antenna Engineering. <b>2016</b> , 321-376	1
Simulating runoff under changing climatic conditions: Revisiting an apparent deficiency of conceptual rainfall-runoff models. <b>2016</b> , 52, 1820-1846	99
1059 The Macroeconomic Impact of Financial and Uncertainty Shocks. <b>2016</b> ,	21
1058 A variant of group search optimizer for global optimization. <b>2016</b> , 16, 219-230	4
1057 Estimation multivariate normal algorithm with thresheld convergence. <b>2016</b> ,	1
1056 Leap on large-scale nonseparable problems. <b>2016</b> ,	2
1056 Leap on large-scale nonseparable problems. 2016,  1055 QR Mutations Improve Many Evolution Strategies. 2016,	4
QR Mutations Improve Many Evolution Strategies. 2016,  Optimal unit sizing for small-scale integrated energy systems using multi-objective interval	37
Optimal unit sizing for small-scale integrated energy systems using multi-objective interval optimization and evidential reasoning approach. <b>2016</b> , 111, 933-946  A method for predicting the network security situation based on hidden BRB model and revise.	4 37 sed <sub>21</sub>
Optimal unit sizing for small-scale integrated energy systems using multi-objective interval optimization and evidential reasoning approach. 2016, 111, 933-946  A method for predicting the network security situation based on hidden BRB model and revis CMA-ES algorithm. 2016, 48, 404-418  Automatic correction of barrel distorted images using a cascaded evolutionary estimator. 2016	4 37 sed 21
Optimal unit sizing for small-scale integrated energy systems using multi-objective interval optimization and evidential reasoning approach. 2016, 111, 933-946  A method for predicting the network security situation based on hidden BRB model and revis CMA-ES algorithm. 2016, 48, 404-418  Automatic correction of barrel distorted images using a cascaded evolutionary estimator. 2013 366, 70-98	4 37 sed 21 16, 2
Optimal unit sizing for small-scale integrated energy systems using multi-objective interval optimization and evidential reasoning approach. 2016, 111, 933-946  A method for predicting the network security situation based on hidden BRB model and revis CMA-ES algorithm. 2016, 48, 404-418  Automatic correction of barrel distorted images using a cascaded evolutionary estimator. 20: 366, 70-98  Evolutionary optimization for parameterized whole-body dynamic motor skills. 2016,  Optimal groundwater management using state-space surrogate models: a case study for an automatic case study for	4 37 sed 21 16, 2

1047	Constrained differential evolution using generalized opposition-based learning. 2016, 20, 4413-4437	7
1046	A Heuristic Approach to Finding the Preferred Design Variable Parameterization for Optimization. <b>2016</b> ,	О
1045	A novel nature-inspired algorithm for optimization: Virus colony search. <b>2016</b> , 92, 65-88	171
1044	The macroeconomic impact of financial and uncertainty shocks. <b>2016</b> , 88, 185-207	196
1043	Global optimization using q-gradients. <b>2016</b> , 251, 727-738	12
1042	Evolutionary algorithms for large-scale global optimisation: a snapshot, trends and challenges. <b>2016</b> , 5, 85-89	10
1041	The Whale Optimization Algorithm. <b>2016</b> , 95, 51-67	4197
1040	Contextual Policy Search for Linear and Nonlinear Generalization of a Humanoid Walking Controller. <b>2016</b> , 83, 393-408	4
1039	Dynamic Configuration of Differential Evolution Control Parameters and Operators. 2016, 78-88	1
1038	Turning statistical physics models into materials design engines. <b>2016</b> , 113, 34-9	51
1037	A geometric model for the periodic undulation of a confined adhesive crack. <b>2016</b> , 12, 1778-82	2
1036	Optimizing packing fraction in granular media composed of overlapping spheres. <b>2016</b> , 12, 1107-15	27
1035	The Automated Design of Materials Far From Equilibrium. 2016,	2
1034	Opposition-based Magnetic Optimization Algorithm with parameter adaptation strategy. <b>2016</b> , 26, 97-119	7
1033	Comparative optimizer rank and score: A modern approach for performance analysis of optimization techniques. <b>2016</b> , 45, 118-130	
1032	Genetic Learning Particle Swarm Optimization. <b>2016</b> , 46, 2277-2290	268
1031	Critical point calculations of multi-component reservoir fluids using nature-inspired metaheuristic algorithms. <b>2016</b> , 409, 280-290	9
1030	Simulation-Based Design for Wearable Robotic Systems: An Optimization Framework for Enhancing a Standing Long Jump. <b>2016</b> , 63, 894-903	28

1029 Evolutionary predator and prey strategy for global optimization. <b>2016</b> , 327, 217-232	14
1028 A hybrid grid-GA-based LSSVR learning paradigm for crude oil price forecasting. <b>2016</b> , 27, 2193-2	2215 31
Arterial cannula shape optimization by means of the rotational firefly algorithm. <b>2016</b> , 48, 497-5	<b>18</b> 8
1026 Memetic Viability Evolution for Constrained Optimization. <b>2016</b> , 20, 125-144	29
Optimization design of unitized panels with stiffeners in different formats using the evolutionary strategy with covariance matrix adaptation. <b>2017</b> , 231, 1563-1573	у 4
1024 . <b>2017</b> , 9, 290-304	3
A multi-tier adaptive grid algorithm for the evolutionary multi-objective optimisation of complex problems. <b>2017</b> , 21, 4963-4979	4
1022 Modeling complex aquifer systems: a case study in Baton Rouge, Louisiana (USA). <b>2017</b> , 25, 601-6	515 1 <sub>7</sub>
1021 Review: Multi-objective optimization methods and application in energy saving. <b>2017</b> , 125, 681-7	04 255
Co-evolutionary multi-task learning with predictive recurrence for multi-step chaotic time series prediction. <b>2017</b> , 243, 21-34	51
DG2: A Faster and More Accurate Differential Grouping for Large-Scale Black-Box Optimization. <b>2017</b> , 21, 929-942	137
1018 Human mental search: a new population-based metaheuristic optimization algorithm. <b>2017</b> , 47, 8	3 <b>50-887</b> 65
Ensemble Averaging Methods for Quantifying Uncertainty Sources in Modeling Climate Change Impact on Runoff Projection. <b>2017</b> , 22, 04016067	6
Dynamic particle swarm optimizer with escaping prey for solving constrained non-convex and piecewise optimization problems. <b>2017</b> , 86, 208-223	10
A variant of environmental adaptation method with real parameter encoding and its application economic load dispatch problem. <b>2017</b> , 47, 409-429	in <sub>10</sub>
1014 Model Validation and Uncertainty Quantification, Volume 3. <b>2017</b> ,	3
Multi-objective mean Pariance Rewness model for nonconvex and stochastic optimal power flow considering wind power and load uncertainties. <b>2017</b> , 263, 719-732	20
1012 Applications of Evolutionary Computation. <b>2017</b> ,	1

1011	Large Scale Problems in Practice: The Effect of Dimensionality on the Interaction Among Variables. <b>2017</b> , 636-652	11
1010	Experiments on imperfection insensitive axially loaded cylindrical shells. <b>2017</b> , 115-116, 73-86	20
1009	Deformable 3D-2D Registration for Guiding K-Wire Placement in Pelvic Trauma Surgery. <b>2017</b> , 10135,	1
1008	Simplify Your Covariance Matrix Adaptation Evolution Strategy. <b>2017</b> , 21, 746-759	51
1007	A postural control model incorporating multisensory inputs for maintaining a musculoskeletal model in a stance posture. <b>2017</b> , 31, 55-67	4
1006	Estimation of landfill methane emissions using stochastic search methods. <b>2017</b> , 8, 597-605	22
1005	Efficient Resource Allocation in Cooperative Co-Evolution for Large-Scale Global Optimization. <b>2017</b> , 21, 493-505	66
1004	Risk-aware short term hydro-wind-thermal scheduling using a probability interval optimization model. <b>2017</b> , 189, 534-554	44
1003	Sequence-Based Deterministic Initialization for Evolutionary Algorithms. <b>2017</b> , 47, 2911-2923	13
1002	Systematic model identification and optimization-based active polymorphic control of crystallization processes. <b>2017</b> , 174, 374-386	28
1001	Enhanced Grey Wolf Optimization Algorithm for Global Optimization. 2017, 153, 235-264	32
1000	On the Use of the Dual Formulation for Minimum Weighted Vertex Cover in Evolutionary Algorithms. <b>2017</b> ,	6
999	Computational framework for model updating of large scale linear and nonlinear finite element models using state of the art evolution strategy. <b>2017</b> , 192, 210-232	19
998	Learning an Optimization Algorithm Through Human Design Iterations. <b>2017</b> , 139,	12
997	Network Intrusion Detection Based on Directed Acyclic Graph and Belief Rule Base. <b>2017</b> , 39, 592-604	13
996	Optimal design of sensor networks for damage detection. <b>2017</b> , 199, 1864-1869	10
995	Adaptive Sine Cosine Algorithm Integrated with Differential Evolution for Structural Damage Detection. <b>2017</b> , 71-86	13
994	Effect of the mean vector learning rate in CMA-ES. <b>2017</b> ,	

993	A computational design tool for compliant mechanisms. <b>2017</b> , 36, 1-12	52
992	Approximating interior bounded box of 3D character mesh model based on its skeleton and symmetry. <b>2017</b> , 10, 332-347	
991	Generalized exploration in policy search. <b>2017</b> , 106, 1705-1724	3
990	Exploiting linkage information in real-valued optimization with the real-valued gene-pool optimal mixing evolutionary algorithm. <b>2017</b> ,	16
989	Design of an efficient hyper-heuristic algorithm CMA-VNS for combinatorial black-box optimization problems. <b>2017</b> ,	1
988	Model Based Estimation of 2D Crystallization Kinetics From Concentration and CLD Measurements. <b>2017</b> , 40, 169-174	1
987	Planning, guidance, and quality assurance of pelvic screw placement using deformable image registration. <b>2017</b> , 62, 9018-9038	8
986	Modified box constraint handling for the covariance matrix adaptation evolution strategy. <b>2017</b> ,	6
985	Bayesian optimal experimental design for parameter estimation and response predictions in complex dynamical systems. <b>2017</b> , 199, 972-977	5
984	An LaF-CMAES hybrid for optimization in multi-modal search spaces. <b>2017</b> ,	3
983	Analysis among winners of different IEEE CEC competitions on real-parameters optimization: Is there always improvement?. <b>2017</b> ,	2
982	An efficient rank-1 update for Cholesky CMA-ES using auxiliary evolution path. <b>2017</b> ,	1
981	Inferior solutions in Gaussian EDA: Useless or useful?. <b>2017</b> ,	1
980	Multi-method based orthogonal experimental design algorithm for solving CEC2017 competition problems. <b>2017</b> ,	14
979	Improving the local search capability of Effective Butterfly Optimizer using Covariance Matrix Adapted Retreat Phase. <b>2017</b> ,	61
978	An efficient modified grey wolf optimizer with LQy flight for optimization tasks. <b>2017</b> , 60, 115-134	232
977	Bayesian identification of the tendon fascicles structural composition using finite element models for helical geometries. <b>2017</b> , 313, 744-758	14
976	Hierarchic Entropy: An Information Theoretic Measure of Evolutionary Robotic Behavioral Diversity. <b>2017</b> , 31, 1751002	3

975	Quantifying Variable Interactions in Continuous Optimization Problems. 2017, 21, 249-264		22
974	LM-CMA: An Alternative to L-BFGS for Large-Scale Black Box Optimization. <i>Evolutionary Computation</i> , <b>2017</b> , 25, 143-171	4.3	36
973	Metamodel-based inverse method for parameter identification: elasticplastic damage model. <b>2017</b> , 49, 633-653		5
972	Intelligent Multiple Search Strategy Cuckoo Algorithm for Numerical and Engineering Optimization Problems. <b>2017</b> , 42, 567-593		12
971	Plants, microorganisms, and soil temperatures contribute to a decrease in methane fluxes on a drained Arctic floodplain. <b>2017</b> , 23, 2396-2412		40
970	Thermodynamic and technoeconomic optimization of Organic Rankine Cycle systems. <b>2017</b> , 173-249		17
969	Towards the design and implementation of optimization networks in HeuristicLab. 2017,		4
968	Optimizing basic skills on humanoid robots. <b>2017</b> ,		1
967	A computational comparison of simulation optimization methods using single observations within a shrinking ball on noisy black-box functions with mixed integer and continuous domains. <b>2017</b> ,		2
966	Evaluating the Performance of "Derandomized-LShade" Algorithm on CEC 2014 Benchmark Functions. <b>2017</b> ,		O
965	Linear and nonlinear regression analysis for heavy metals removal using Agaricus bisporus macrofungus. <b>2017</b> , 10, S3569-S3579		66
964	Exploring the Limits of the Geometric Copolymerization Model. <b>2017</b> , 9,		1
963	Reverse engineering model structures for soil and ecosystem respiration: the potential of gene expression programming. <b>2017</b> , 10, 3519-3545		4
962	Enhanced colliding bodies optimisation-based optimal design of wideband digital integrators and differentiators. <b>2017</b> , 9, 165		5
961	Online Area Load Modeling in Power Systems Using Enhanced Reinforcement Learning. <b>2017</b> , 10, 1852		8
960	Unifying Speed-Accuracy Trade-Off and Cost-Benefit Trade-Off in Human Reaching Movements. <b>2017</b> , 11, 615		10
959	Bibliography. 694-700		
958	Inverse problem based differential evolution for efficient structural health monitoring of trusses. <b>2018</b> , 66, 462-472		34

957	Adaptive and Resilient Soft Tensegrity Robots. <b>2018</b> , 5, 318-329	49
956	Tunable, Flexible, and Efficient Optimization of Control Pulses for Practical Qubits. <b>2018</b> , 120, 150401	52
955	Improved Rainfall-Runoff Calibration for Drying Climate: Choice of Objective Function. <b>2018</b> , 54, 3392-3408	39
954	Sinusoidal voltage protocols for rapid characterisation of ion channel kinetics. <b>2018</b> , 596, 1813-1828	29
953	Automatic estimation of differential evolution parameters using Hidden Markov Models. 2018, 10, 77-93	5
952	Multiple crack detection in 3D using a stable XFEM and global optimization. 2018, 62, 835-852	29
951	Extrapolation of an Optimal Policy using Statistical Probabilistic Model Checking. 2018, 157, 443-461	1
950	Optimizing self-consistent field theory block copolymer models with X-ray metrology. <b>2018</b> , 3, 376-389	11
949	Combination of FEM and CMA-ES algorithm for transmissivity identification in aquifer systems. <b>2018</b> , 32, 264-277	10
948	A modified butterfly optimization algorithm for mechanical design optimization problems. <b>2018</b> , 40, 1	31
947	Comparison of mutation strategies in Differential Evolution 🛭 probabilistic perspective. <b>2018</b> , 39, 53-69	44
946	Solving the Traveling Thief Problem Using Orchestration in Optimization Networks. <b>2018</b> , 307-315	2
945	Stress estimation in reservoirs using an integrated inverse method. <b>2018</b> , 114, 30-40	2
944	Improved Alopex-based evolutionary algorithm by Gaussian copula estimation of distribution algorithm and its application to the Butterworth filter design. <b>2018</b> , 49, 160-178	2
943	Enhancing the performance of differential evolution with covariance matrix self-adaptation. <b>2018</b> , 64, 227-243	21
942	Rational spectral collocation and differential evolution algorithms for singularly perturbed problems with an interior layer. <b>2018</b> , 335, 312-322	3
941	Inverse hygric property determination based on dynamic measurements and swarm-intelligence optimisers. <b>2018</b> , 131, 184-196	7
940	An Insight into Bio-inspired and Evolutionary Algorithms for Global Optimization: Review, Analysis, and Lessons Learnt over a Decade of Competitions. <b>2018</b> , 10, 517-544	44

939	Optimized cross-resonance gate for coupled transmon systems. 2018, 97,	17
938	A two phase hybrid algorithm with a new decomposition method for large scale optimization. <b>2018</b> , 25, 349-367	18
937	Evolutionary computation for wind farm layout optimization. <b>2018</b> , 126, 681-691	41
936	A Hybrid Harmony search and Simulated Annealing algorithm for continuous optimization. <b>2018</b> , 450, 246-266	66
935	Learning to Put On a Knit Cap in a Head-Centric Policy Space. <b>2018</b> , 3, 764-771	6
934	Evolutionary programming with a simulated-conformist mutation strategy. <b>2018</b> , 22, 659-676	
933	A Levy flight-based grey wolf optimizer combined with back-propagation algorithm for neural network training. <b>2018</b> , 30, 3707-3720	57
932	A novel differential evolution algorithm for solving constrained engineering optimization problems. <b>2018</b> , 29, 659-692	74
931	Drone Squadron Optimization: a novel self-adaptive algorithm for global numerical optimization. <b>2018</b> , 30, 3117-3144	21
930	B-spline collocation and self-adapting differential evolution (jDE) algorithm for a singularly perturbed convection diffusion problem. <b>2018</b> , 22, 2683-2693	5
929	Identification of optimal topologies for crashworthiness with the evolutionary level set method. <b>2018</b> , 23, 395-416	26
928	Some metaheuristics should be simplified. <b>2018</b> , 427, 32-62	41
927	Rational design of patchy colloids via landscape engineering. <b>2018</b> , 3, 49-65	23
926	A Simple Yet Efficient Evolution Strategy for Large-Scale Black-Box Optimization. <b>2018</b> , 22, 637-646	28
925	Overlapping layered learning. <b>2018</b> , 254, 21-43	15
924	A Comparative Study of Eighteen Self-adaptive Metaheuristic Algorithms for Truss Sizing Optimisation. <b>2018</b> , 22, 2982-2993	11
923	Inverse design of grafted nanoparticles for targeted self-assembly. <b>2018</b> , 3, 214-222	11
922	Adaptation of operators and continuous control parameters in differential evolution for constrained optimization. <b>2018</b> , 22, 6595-6616	11

921	Dynamic mutation in MAP-Elites for robotic repertoire generation. 2018,	7
920	Runtime analysis of randomized search heuristics for the dynamic weighted vertex cover problem. <b>2018</b> ,	3
919	Evolving Controllers for a Transformable Wheel Mobile Robot. <b>2018</b> , 2018, 1-12	3
918	Integrated Reverse Engineering Strategy for Large-Scale Mechanical Systems: Application to a Steam Turbine Rotor. <b>2018</b> , 4,	2
917	Design of an Adaptive Push-Repel Operator for Enhancing Convergence in Genetic Algorithms. <b>2018</b> ,	
916	Self-optimization Strategy for IO Accelerator Parameterization. 2018, 157-170	3
915	Automatic tuning of the Community Atmospheric Model (CAM5) by using short-term hindcasts with an improved downhill simplex optimization method. <b>2018</b> , 11, 5189-5201	5
914	Reward Only Training of Encoder-Decoder Digit Recognition Systems Based on Policy Gradient Methods. <b>2018</b> ,	
913	Optimization of Echo State Networks by Covariance Matrix Adaption Evolutionary Strategy. 2018,	
912	Developmental Bayesian Optimization of Black-Box with Visual Similarity-Based Transfer Learning. <b>2018</b> ,	1
911	Reinforcement Learning of Speech Recognition System Based on Policy Gradient and Hypothesis Selection. <b>2018</b> ,	4
910	Trajectory Planning of a 6D Robot based on Meta Heuristic Algorithms. <b>2018</b> , 220, 06004	o
909	Optimization Parameters of PID Controller for Powered Ankle-foot Prosthesis Based on CMA Evolution Strategy. <b>2018</b> ,	4
908	Hybrid Sampling Evolution Strategy for Solving Single Objective Bound Constrained Problems. <b>2018</b> ,	23
907	Fast personalized electrophysiological models from computed tomography images for ventricular tachycardia ablation planning. <b>2018</b> , 20, iii94-iii101	25
906	No free lunch in ball catching: A comparison of Cartesian and angular representations for control. <b>2018</b> , 13, e0197803	2
905	Kinetic Modeling and Optimization of the Rh/C-Catalyzed Continuous Green Synthesis of Acetic Acid from Methanol in a Two-Phase Fixed Bed Tubular Reactor. <b>2018</b> , 22, 1745-1752	4
904	Evolution of fin undulation on a physical knifefish-inspired soft robot. 2018,	4

903	Performance Dynamics and Termination Errors in Reinforcement Learning 🖪 Unifying Perspective. <b>2018</b> ,	1
902	Improved United Multi-Operator Algorithm for Solving Optimization Problems. 2018,	6
901	Attacking Arbiter PUFs Using Various Modeling Attack Algorithms: A Comparative Study. 2018,	О
900	A Matrix Adaptation Evolution Strategy for Constrained Real-Parameter Optimization. 2018,	22
899	A Simple Approach for Constrained Optimization - An Evolution Strategy that Evolves Rays. 2018,	
898	Evolution of Images with Diversity and Constraints Using a Generative Adversarial Network. <b>2018</b> , 452-465	4
897	Stochastic Reinforcement Learning. <b>2018</b> ,	2
896	Fitness Inheritance Assisted MOEA/D-CMAES for Complex Multi-Objective Optimization Problems. <b>2018</b> ,	1
895	Applications of Metaheuristics in Reservoir Computing Techniques: A Review. <b>2018</b> , 6, 58012-58029	16
894	Improving Model-Based Balance Controllers Using Reinforcement Learning and Adaptive Sampling. <b>2018</b> ,	3
893	Coevolutionary multi-task learning for feature-based modular pattern classification. <b>2018</b> , 319, 164-175	7
892	Coordinated Dense Aerial Traffic with Self-Driving Drones. 2018,	6
891	Eager and Memory-Based Non-Parametric Stochastic Search Methods for Learning Control. 2018,	
890	Counteracting systems of diabaticities using DRAG controls: The status after 10 years (a). <b>2018</b> , 123, 60001	15
889	Analysis of Frequency Stability and Thermoelastic Effects for Slotted Tuning Fork MEMS Resonators. <b>2018</b> , 18,	12
888	SAR Image Segmentation Based on Improved Grey Wolf Optimization Algorithm and Fuzzy C-Means. <b>2018</b> , 2018, 1-11	13
887	Integration of and Models Using Bayesian Optimization With an Application to Stochastic Modeling of Mesenchymal 3D Cell Migration. <b>2018</b> , 9, 1246	8
886	Analysis of information geometric optimization with isotropic gaussian distribution under finite samples. <b>2018</b> ,	2

Sevolving mario levels in the latent space of a deep convolutional generative adversarial network.  Strong Spine S	885	Large-scale parallelization of partial evaluations in evolutionary algorithms for real-world problems. <b>2018</b> ,	4
Evolving mario levels in the latent space of a deep convolutional generative adversarial network.  2018.  881 Chimera: enabling hierarchy based multi-objective optimization for self-driving laboratories. 2018, 9, 7642-7655  880 OPTIMIZING THERMAL COMFORT AND ENERGY CONSUMPTION IN A LARGE BUILDING WITHOUT 2  879 Musculoskeletal simulations to investigate influences of muscle weakness and sensory noise to postural control with high stiffness. 2018, 2018, 2018, 729, 106-118  877 A Dynamic Early Stopping Criterion for Random Search in SVM Hyperparameter Optimization. 2018, 168-180 2  876 Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. 2018, 168-180 2  877 Synthesis of fast and collision-free folding of polyhedral nets. 2018, 2018, 1-15  878 Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  870 A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1 45-155  870 CMABIHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	884	Some Contemporary Stochastic Optimization Algorithms: A Glimpse. <b>2018</b> , 23-36	
Chimera: enabling hierarchy based multi-objective optimization for self-driving laboratories. 2018, 9, 7642-7655  So OPTIMIZING THERMAL COMFORT AND ENERGY CONSUMPTION IN A LARGE BUILDING WITHOUT RENOVATION WORK. 2018.  Musculoskeletal simulations to investigate influences of muscle weakness and sensory noise to postural control with high stiffness. 2018,  Multi-scale investigation of highly anisotropic zinc alloys using crystal plasticity and inverse analysis. 2018, 729, 106-118  A Dynamic Early Stopping Criterion for Random Search in SVM Hyperparameter Optimization. 2018, 168-180 2  Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. 2018, 168-180 2  Enhanced Hybrid Differential Evolution for Earth-Moon Low-Energy Transfer Trajectory Optimization. 2018, 2018, 1-17  Synthesis of fast and collision-free folding of polyhedral nets. 2018,  Prediction of Drifter Trajectory Using Evolutionary Computation. 2018, 2018, 1-15  Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1  Apochromatic singlets enabled by metasurface-augmented GRIN lenses. 2018, 5, 99  26  CMABIBybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	883	Cost?Benefit Optimization of Structural Health Monitoring Sensor Networks. <b>2018</b> , 18,	23
9, 7642-7655  880 OPTIMIZING THERMAL COMFORT AND ENERGY CONSUMPTION IN A LARGE BUILDING WITHOUT RENOVATION WORK. 2018.  879 Musculoskeletal simulations to investigate influences of muscle weakness and sensory noise to postural control with high stiffness. 2018.  878 Multi-scale investigation of highly anisotropic zinc alloys using crystal plasticity and inverse analysis. 2018, 729, 106-118  877 A Dynamic Early Stopping Criterion for Random Search in SVM Hyperparameter Optimization. 2018, 168-180 2  876 Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. 2018, 168-180 2  877 Enhanced Hybrid Differential Evolution for Earth-Moon Low-Energy Transfer Trajectory Optimization. 2018, 2018, 1-17  874 Synthesis of fast and collision-free folding of polyhedral nets. 2018,  875 Prediction of Drifter Trajectory Using Evolutionary Computation. 2018, 2018, 1-15 3  872 Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  871 A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1  870 Apochromatic singlets enabled by metasurface-augmented GRIN lenses. 2018, 5, 99  869 CMABICHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	882		57
Multi-scale investigation of highly anisotropic zinc alloys using crystal plasticity and inverse analysis. 2018, 729, 106-118  Multi-scale investigation of highly anisotropic zinc alloys using crystal plasticity and inverse analysis. 2018, 729, 106-118  A Dynamic Early Stopping Criterion for Random Search in SVM Hyperparameter Optimization. 2018, 168-180 2  Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. 2018,  Enhanced Hybrid Differential Evolution for Earth-Moon Low-Energy Transfer Trajectory Optimization. 2018, 2018, 1-17  Synthesis of fast and collision-free folding of polyhedral nets. 2018,  Prediction of Drifter Trajectory Using Evolutionary Computation. 2018, 2018, 1-15  Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1  A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1  CMAHICHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	881		53
postural control with high stiffness. 2018,  Multi-scale investigation of highly anisotropic zinc alloys using crystal plasticity and inverse analysis. 2018, 729, 106-118  A Dynamic Early Stopping Criterion for Random Search in SVM Hyperparameter Optimization. 2018, 168-180 2  Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. 2018,  Enhanced Hybrid Differential Evolution for Earth-Moon Low-Energy Transfer Trajectory Optimization. 2018, 2018, 1-17  Synthesis of fast and collision-free folding of polyhedral nets. 2018,  Prediction of Drifter Trajectory Using Evolutionary Computation. 2018, 2018, 1-15  Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1  Apochromatic singlets enabled by metasurface-augmented GRIN lenses. 2018, 5, 99  CMABIGHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	880		2
analysis. 2018, 729, 106-118  A Dynamic Early Stopping Criterion for Random Search in SVM Hyperparameter Optimization. 2018, 168-180 2  Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. 2018,  Enhanced Hybrid Differential Evolution for Earth-Moon Low-Energy Transfer Trajectory Optimization. 2018, 2018, 1-17  Synthesis of fast and collision-free folding of polyhedral nets. 2018,  Prediction of Drifter Trajectory Using Evolutionary Computation. 2018, 2018, 1-15  Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1  Apochromatic singlets enabled by metasurface-augmented GRIN lenses. 2018, 5, 99  CMAHICHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	879		
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Optimization. 2018, 2018, 1-17  Synthesis of fast and collision-free folding of polyhedral nets. 2018,  Prediction of Drifter Trajectory Using Evolutionary Computation. 2018, 2018, 1-15  Modified whale optimization algorithm for fractional-order multi-input SSSC-based controller design. 2018, 39, 1802-1817  A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1  Apochromatic singlets enabled by metasurface-augmented GRIN lenses. 2018, 5, 99  CMABIGHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	876	Combing Gibbs-sampling with adaptive particle swarm for large scale global optimization. 2018,	
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869 CMAHIHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. <b>2018</b> , 145-155	871	A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018, 1	24
	870	Apochromatic singlets enabled by metasurface-augmented GRIN lenses. <b>2018</b> , 5, 99	26
868 . <b>2018</b> , 3, 3922-3929	869	CMAHIHybrid Design of Robust Stable Adaptive Fuzzy Controllers for Non-linear Systems. 2018, 145-155	
	868	. <b>2018</b> , 3, 3922-3929	2

867	Empirical values of branching ratios in the three-body recombination reaction for O(1S) and O2(0,0) airglow chemistry. <b>2018</b> , 62, 2679-2691	6
866	A simple method of transport parameter estimation for slug injecting tracer tests in porous media. <b>2018</b> , 644, 1536-1546	6
865	Basic, Dual, Adaptive, and Directed Mutation Operators in the Fly Algorithm. 2018, 100-114	
864	Heparan Sulfate Induces Necroptosis in Murine Cardiomyocytes: A Medical- Approach Combining Experiments and Machine Learning. <b>2018</b> , 9, 393	3
863	Evolutionary Methods for Generating Synthetic MasterPrint Templates: Dictionary Attack in Fingerprint Recognition. <b>2018</b> ,	8
862	Optimized flocking of autonomous drones in confined environments. 2018, 3,	136
861	A probabilistic framework for multidisciplinary design: Application to the hydrostructural optimization of supercavitating hydrofoils. <b>2018</b> , 116, 246-269	5
860	Asynchronously parallel optimization solver for finding multiple minima. <b>2018</b> , 10, 303-332	8
859	Co-variance guided Artificial Bee Colony. <b>2018</b> , 70, 86-107	17
858	Model-based evolutionary algorithms: a short survey. <b>2018</b> , 4, 283-292	39
857	Well placement optimization for carbon dioxide capture and storage via CMA-ES with mixed integer support. <b>2018</b> ,	2
856	Benchmarking the PSA-CMA-ES on the BBOB noiseless testbed. <b>2018</b> ,	2
855	Phoenics: A Bayesian Optimizer for Chemistry. <b>2018</b> , 4, 1134-1145	126
854	Safe mutations for deep and recurrent neural networks through output gradients. 2018,	19
853	PSA-CMA-ES. <b>2018</b> ,	9
852	Enabling Exclusive Shared Access to Cloud of Things Resources. 2018,	1
851	A note on the CMA-ES for functions with periodic variables. <b>2018</b> ,	0
850	Bayesian optimisation with prior reuse for motion planning in robot soccer. 2018,	2

849 A Hybrid Optimization Algorithm for Electric Motor Design. **2018**, 501-517

848	Co-evolutionary multi-task learning for dynamic time series prediction. <b>2018</b> , 70, 576-589	30
847	Space-time constrained optimization for deep locomotion controller. 2018,	
846	Tuning the hyper-parameters of CMA-ES with tree-structured Parzen estimators. <b>2018</b> ,	5
845	Langevin Diffusion for Population Based Sampling with an Application in Bayesian Inference for Pharmacodynamics. <b>2018</b> , 40, B788-B811	1
844	Forward and inverse problems in the mechanics of soft filaments. <b>2018</b> , 5, 171628	58
843	Structural health monitoring and fatigue damage estimation using vibration measurements and finite element model updating. <b>2019</b> , 18, 1189-1206	28
842	Global genetic learning particle swarm optimization with diversity enhancement by ring topology. <b>2019</b> , 44, 571-583	49
841	A Global Optimization Approach Based on Opinion Formation in Complex Networks. <b>2019</b> , 6, 173-187	3
840	An efficient hybrid multilayer perceptron neural network with grasshopper optimization. <b>2019</b> , 23, 7941-7958	3 129
839	Evolutionary Bilevel Optimization Based on Covariance Matrix Adaptation. 2019, 23, 258-272	13
838	Large Scale Black-Box Optimization by Limited-Memory Matrix Adaptation. <b>2019</b> , 23, 353-358	18
837	Biology migration algorithm: a new nature-inspired heuristic methodology for global optimization. <b>2019</b> , 23, 7333-7358	16
836	Monte Carlo simulations of trapped ultracold neutrons in the UCNL experiment. 2019, 100,	4
835	Well placement optimization under geological statistical uncertainty. 2019,	2
834	An Adaptive Whale Optimization Algorithm Using Gaussian Distribution Strategies and Its Application in Heterogeneous UCAVs Task Allocation. <b>2019</b> , 7, 110138-110158	10
833	Testing A Multi-Operator based Differential Evolution Algorithm on the 100-Digit Challenge for Single Objective Numerical Optimization. <b>2019</b> ,	5
832	Cooperative Optimization Algorithm for the 100-Digit Challenge. <b>2019</b> ,	

831 Effective and Stable Neuron Model Optimization Based on Aggregated CMA-ES. 2019,

830	Object Detection and Mapping During European Robotic Competitions - Lesson Learned. <b>2019</b> ,	
829	Adaptive Genomic Evolution of Neural Network Topologies (AGENT) for State-to-Action Mapping in Autonomous Agents. <b>2019</b> ,	3
828	Multi-sensor extrinsic calibration with the Adam optimizer. <b>2019</b> ,	O
827	On the use of metaheuristics in hyperparameters optimization of gaussian processes. <b>2019</b> ,	0
826	Mapping Neural Networks to FPGA-Based IoT Devices for Ultra-Low Latency Processing. <b>2019</b> , 19,	7
825	Impacts of Linnik Flight Usage Patterns on Cuckoo Search for Real-Parameter Global Optimization Problems. <b>2019</b> , 7, 83932-83961	2
824	Hyperparameter optimization in black-box image processing using differentiable proxies. <b>2019</b> , 38, 1-14	12
823	On Some Improved Versions of Whale Optimization Algorithm. <b>2019</b> , 44, 9653-9691	26
822	A global surrogate assisted CMA-ES. <b>2019</b> ,	14
821	Fast optimization of defect compensation and optical proximity correction for extreme ultraviolet lithography mask. <b>2019</b> , 452, 169-180	1
820	Generalized incremental orthant search. 2019,	
819	Modular Assessment of Rainfall <b>R</b> unoff Models Toolbox (MARRMoT) v1.2: an open-source, extendable framework providing implementations of 46 conceptual hydrologic models as continuous state-space formulations. <b>2019</b> , 12, 2463-2480	39
818	A covariance matrix adaptation evolution strategy in reproducing kernel Hilbert space. <b>2019</b> , 20, 479-501	3
817	Large-Scale Integrated Energy Systems. <b>2019</b> ,	1
816	Multi-objective Optimization Algorithms. <b>2019</b> , 39-72	
815	Enhancing the Local Search Ability of the Brain Storm Optimization Algorithm by Covariance Matrix Adaptation. <b>2019</b> , 105-122	1
814	Adaptive ranking based constraint handling for explicitly constrained black-box optimization. 2019,	6

813	Improved Self-adaptive Search Equation-based Artificial Bee Colony Algorithm with competitive local search strategy. <b>2019</b> , 51, 100582	10
812	Modeling and simulation of complex dynamic musculoskeletal architectures. <b>2019</b> , 10, 4825	16
811	Whale Optimization Algorithm with Chaos Strategy and Weight Factor. <b>2019</b> , 1213, 032004	4
810	Surrogate-Assisted Evolutionary Framework with Adaptive Knowledge Transfer for Multi-task Optimization. <b>2019</b> , 1-1	14
809	An Energy-Efficient Partition-Based Framework With Continuous Ant Colony Optimization for Target Tracking in Mobile Sensor Networks. <b>2019</b> , 1-14	4
808	Evolved embodied phase coordination enables robust quadruped robot locomotion. 2019,	6
807	Adaptive objective selection for multi-fidelity optimization. 2019,	1
806	Hybrid of PSO and CMA-ES for Global Optimization. <b>2019</b> ,	4
805	Cooperative Co-evolution with Soft Grouping for Large Scale Global Optimization. 2019,	8
804	Quantum Differential Evolution: an Investigation. 2019,	O
803	Clustering and Ranking Based Methods for Selecting Tuned Search Heuristic Parameters. 2019,	O
802	Identifying idealised vectors for emotion detection using CMA-ES. <b>2019</b> ,	
801	Benchmarking constrained surrogate-based optimization on low speed airfoil design problems. <b>2019</b> ,	5
800	(卧CCMA-ES for Constrained Optimization with an Application in Pharmacodynamics. <b>2019</b> ,	
799	ATM change management: An evolutionary and agent-based approach. <b>2019</b> , 259, 02005	1
798	Inverse design of charged colloidal particle interactions for self assembly into specified crystal structures. <b>2019</b> , 151, 084109	11
797	Generalized drift analysis in continuous domain. 2019,	7
796	Automatic discovery of 100-miRNA signature for cancer classification using ensemble feature selection. <b>2019</b> , 20, 480	30

795	Optimising trotter-suzuki decompositions for quantum simulation using evolutionary strategies. <b>2019</b> ,	1
794	Optimum design of large-scale systems considering material nonlinearities and uncertainties. <b>2019</b> , 223, 106102	3
793	Moth Flame Clustering Algorithm for Internet of Vehicle (MFCA-IoV). <b>2019</b> , 7, 11613-11629	34
79 <sup>2</sup>	Brain Storm Optimization Algorithms. <b>2019</b> ,	8
791	Motion compensation in extremity cone-beam computed tomography. <b>2019</b> , 48, 1999-2007	7
79°	Traffic Signal Timing via Parallel Reinforcement Learning. <b>2019</b> , 113-123	2
789	Maximum Likelihood Estimation for Three-Parameter Weibull Distribution Using Evolutionary Strategy. <b>2019</b> , 2019, 1-8	9
788	Confined teaching-learning-based optimization with variable search strategies for continuous optimization. <b>2019</b> , 500, 34-47	7
787	Creating glasswing butterfly-inspired durable antifogging superomniphobic supertransmissive, superclear nanostructured glass through Bayesian learning and optimization. <b>2019</b> , 6, 1632-1642	17
786	Smart Transportation Systems 2019. <b>2019</b> ,	3
7 <sup>8</sup> 5	A dual mutation differential evolution algorithm for singularly perturbed problems with two small parameters. <b>2019</b> , 36, 6579-6587	2
784	Intensity-based 2D-3D registration for an ACL reconstruction navigation system. <b>2019</b> , 15, e2008	3
783	A Novel Grey Wolf Optimizer Algorithm With Refraction Learning. <b>2019</b> , 7, 57805-57819	22
782	Spherical evolution for solving continuous optimization problems. <b>2019</b> , 81, 105499	30
781	A united framework with multi-operator evolutionary algorithms and interior point method for efficient single objective optimisation problem solving. <b>2019</b> , 13, 340	4
780	A chaotic salp swarm algorithm based on quadratic integrate and fire neural model for function optimization. <b>2019</b> , 8, 343-358	13
779	Bio-inspired computation: Where we stand and what's next. <b>2019</b> , 48, 220-250	264
778	OpenFPM: A scalable open framework for particle and particle-mesh codes on parallel computers. <b>2019</b> , 241, 155-177	19

777	Enhanced Directed Differential Evolution Algorithm for Solving Constrained Engineering Optimization Problems. <b>2019</b> , 10, 1-28	25
776	Matrix Adaptation Evolution Strategy with Multi-Objective Optimization for Multimodal Optimization. <b>2019</b> , 12, 56	2
775	Sub-structure Coupling for Dynamic Analysis. <b>2019</b> ,	3
774	Inverting magnetotelluric responses in a three-dimensional earth using fast forward approximations based on artificial neural networks. <b>2019</b> , 127, 44-52	23
773	Postural control of a musculoskeletal model against multidirectional support surface translations. <b>2019</b> , 14, e0212613	7
772	Mirrored Orthogonal Sampling for Covariance Matrix Adaptation Evolution Strategies. <i>Evolutionary Computation</i> , <b>2019</b> , 27, 699-725	4
771	Active learning via informed search in movement parameter space for efficient robot task learning and transfer. <b>2019</b> , 43, 1917-1935	2
770	Fantastic Liquids and Where To Find Them: Optimizations of Discrete Chemical Space. <b>2019</b> , 59, 2617-2625	5
769	Adaptive modeling strategy for constrained global optimization with application to aerodynamic wing design. <b>2019</b> , 90, 85-102	37
768	Atlas-based automatic planning and 3D-2D fluoroscopic guidance in pelvic trauma surgery. <b>2019</b> , 64, 095022	11
767	Meta-optimization of multi-objective population-based algorithms using multi-objective performance metrics. <b>2019</b> , 489, 193-204	8
766	Bayesian Finite Element Model Updating. <b>2019</b> , 179-227	1
765	LSHADE-SPA memetic framework for solving large-scale optimization problems. <b>2019</b> , 5, 25-40	27
764	A hierarchical gravitational search algorithm with an effective gravitational constant. <b>2019</b> , 46, 118-139	49
763	Building energy optimization: An extensive benchmark of global search algorithms. <b>2019</b> , 187, 218-240	38
762	Adaptive comprehensive learning particle swarm optimization with cooperative archive. <b>2019</b> , 77, 533-546	23
761	Modeling Point Spread Function in Fluorescence Microscopy With a Sparse Gaussian Mixture: Tradeoff Between Accuracy and Efficiency. <b>2019</b> , 28, 3688-3702	10
760	Automated identification and deep classification of cut marks on bones and its paleoanthropological implications. <b>2019</b> , 32, 36-43	18

759	Multi-Leader Comprehensive Learning Particle Swarm Optimization with Adaptive Mutation for Economic Load Dispatch Problems. <b>2019</b> , 12, 116	11
758	Modified embedded-atom method potential of niobium for studies on mechanical properties. <b>2019</b> , 161, 351-363	11
757	Multiobjective Evolutionary Optimization Based on Fuzzy Multicriteria Evaluation and Decomposition for Image Matting. <b>2019</b> , 27, 1100-1111	7
756	Bioinspired nonequilibrium search for novel materials. <b>2019</b> , 44, 96-105	5
755	Kriging-assisted topology optimization of crash structures. <b>2019</b> , 348, 730-752	42
754	Correlated Gaussian approach to anisotropic resonantly interacting few-body systems. <b>2019</b> , 52, 145102	4
753	Switching Between Swarm Optimization Algorithms During a Run: An Empirical Study. 2019,	
752	Parameter Setting of CMA-ES: A Numerical Study on CEC2019 100-Digit Challenge. <b>2019</b> ,	
751	Cognitive Optimization of Multitasking Detection for 2D E-Scan Airborne Surveillance Radar. 2019,	
750	An Evolutionary Approach to Compact DAG Neural Network Optimization. <b>2019</b> , 7, 178331-178341	4
749	. 2019,	43
748	Multi-Fidelity Automatic Hyper-Parameter Tuning via Transfer Series Expansion. <b>2019</b> , 33, 3846-3853	7
747	A New Approach to Generate Solutions Combining Crossover and Estimation of Distribution Operators for EMO Algorithm. <b>2019</b> ,	
746	A novel metaheuristic strategy for energy pricing in active distribution networks and microgrids. <b>2019</b> ,	
745	Global optimization of metasurface designs using statistical learning methods. <b>2019</b> , 9, 17918	16
744	Measuring the curse of population size over swarm intelligence based algorithms. <b>2019</b> , 12, 779	10
743	Inverse design of self-assembling colloidal crystals with omnidirectional photonic bandgaps. <b>2019</b> , 15, 8808-8826	14
742	Cellular learning automata based bare bones PSO with maximum likelihood rotated mutations. <b>2019</b> , 44, 680-694	15

### (2018-2018)

A Bayesian framework for the analog reconstruction of kymographs from fluorescence microscopy data. **2018**,

740	Ensemble strategies for population-based optimization algorithms 🖪 survey. <b>2019</b> , 44, 695-711	109
739	Continuation Multilevel Monte Carlo Evolutionary Algorithm for Robust Aerodynamic Shape Design. <b>2019</b> , 56, 771-786	5
738	A derivative-free optimization-based approach for detecting architectural symmetries from 3D point clouds. <b>2019</b> , 148, 32-40	10
737	The spatial angle autocollimator calibrator: optimised model, uncertainty budget and experimental validation. <b>2019</b> , 56, 015011	8
736	A Bioreactor Fault Diagnosis Based on Metaheuristics. <b>2019</b> , 139-163	
735	One Pixel Attack for Fooling Deep Neural Networks. <b>2019</b> , 23, 828-841	551
734	Automated detection of fault types in CCTV sewer surveys. <b>2019</b> , 21, 153-163	11
733	The whirlpool algorithm based on physical phenomenon for solving optimization problems. <b>2019</b> , 36, 664-690	5
732	Constrained mixed-integer Gaussian mixture Bayesian optimization and its applications in designing fractal and auxetic metamaterials. <b>2019</b> , 59, 2131-2154	20
731	Implications of subsoil-foundation modelling on the dynamic characteristics of a monitored bridge. <b>2019</b> , 15, 180-192	0
730	Contextual Direct Policy Search. <b>2019</b> , 96, 141-157	
729	pBO-2GP-3B: A batch parallel known/unknown constrained Bayesian optimization with feasibility classification and its applications in computational fluid dynamics. <b>2019</b> , 347, 827-852	30
728	A multilevel sampling strategy based memetic differential evolution for multimodal optimization. <b>2019</b> , 334, 79-88	10
727	HyperSPAM: A study on hyper-heuristic coordination strategies in the continuous domain. <b>2019</b> , 477, 186-202	31
726	Novel mutation strategy for enhancing SHADE and LSHADE algorithms for global numerical optimization. <b>2019</b> , 50, 100455	95
725	Multi-Objective Bayesian Global Optimization using expected hypervolume improvement gradient. <b>2019</b> , 44, 945-956	22
724	Experimental trajectory optimization of a flapping fin propulsor using an evolutionary strategy. <b>2018</b> , 14, 016010	4

723	Solving high-dimensional global optimization problems using an improved sine cosine algorithm. <b>2019</b> , 123, 108-126	76
722	Self-Adaptive Single Objective Hybrid Algorithm for Unconstrained and Constrained Test functions: An Application of Optimization Algorithm. <b>2019</b> , 44, 3497-3513	2
721	Evolution-Strategy-Based Automation of System Development for High-Performance Speech Recognition. <b>2019</b> , 27, 77-88	6
720	A Covariance Matrix Self-Adaptation Evolution Strategy for Optimization Under Linear Constraints. <b>2019</b> , 23, 514-524	17
719	Experimental implementation of a Quality-by-Control (QbC) framework using a mechanistic PBM-based nonlinear model predictive control involving chord length distribution measurement for the batch cooling crystallization of l-ascorbic acid. <b>2019</b> , 195, 335-346	21
718	Adaptive guided differential evolution algorithm with novel mutation for numerical optimization. <b>2019</b> , 10, 253-277	100
717	Self-organizing hierarchical monkey algorithm with time-varying parameter. <b>2019</b> , 31, 3245-3263	3
716	Fuzzy Rule-Based Design of Evolutionary Algorithm for Optimization. <b>2019</b> , 49, 301-314	8
715	An Open Framework for Constructing Continuous Optimization Problems. <b>2019</b> , 49, 2316-2330	6
714	Solving large-scale many-objective optimization problems by covariance matrix adaptation evolution strategy with scalable small subpopulations. <b>2020</b> , 509, 457-469	36
713	Fast Covariance Matrix Adaptation for Large-Scale Black-Box Optimization. 2020, 50, 2073-2083	16
712	Self-Adaptive Monte Carlo Tree Search in General Game Playing. <b>2020</b> , 12, 132-144	4
711	Nature-Inspired Optimizers. <b>2020</b> ,	33
710	Harnessing Viscous Flow to Simplify the Actuation of Fluidic Soft Robots. <b>2020</b> , 7, 1-9	31
709	Model Validation and Uncertainty Quantification, Volume 3. <b>2020</b> ,	0
708	Optimal Sensor Placement for Response Reconstruction in Structural Dynamics. <b>2020</b> , 205-210	O
707	An efficient and robust grey wolf optimizer algorithm for large-scale numerical optimization. <b>2020</b> , 24, 997-1026	13
706	Ant Lion Optimizer: Theory, Literature Review, and Application in Multi-layer Perceptron Neural Networks. <b>2020</b> , 23-46	43

## (2020-2020)

705	Machine Learning for Fluid Mechanics. <b>2020</b> , 52, 477-508	523
704	Multi-objective design optimization of an engine accessory drive system with a robustness analysis. <b>2020</b> , 77, 1564-1581	5
703	A space transformational crow search algorithm for optimization problems. <b>2020</b> , 13, 345-364	5
702	An improved water wave optimisation algorithm enhanced by CMA-ES and opposition-based learning. <b>2020</b> , 32, 132-161	6
701	Antisolvent crystallization intensified by a jet crystallizer and a method for investigating crystallization kinetics. <b>2020</b> , 211, 115259	6
700	Finite-Sample Analysis of Information Geometric Optimization With Isotropic Gaussian Distribution on Convex Quadratic Functions. <b>2020</b> , 24, 1035-1049	2
699	Evolving Local Plasticity Rules for Synergistic Learning in Echo State Networks. <b>2020</b> , 31, 1363-1374	11
698	Computational Optimization Study of Transcatheter Aortic Valve Leaflet Design Using Porcine and Bovine Leaflets. <b>2020</b> , 142,	9
697	Hybrid advanced player selection strategy based population search for global optimization. <b>2020</b> , 139, 112825	5
696	Equilibrium optimizer: A novel optimization algorithm. <b>2020</b> , 191, 105190	514
696 695	Equilibrium optimizer: A novel optimization algorithm. <b>2020</b> , 191, 105190  Towards large-scale stochastic refraction tomography: a comparison of three evolutionary algorithms. <b>2020</b> , 68, 536-552	514
	Towards large-scale stochastic refraction tomography: a comparison of three evolutionary	
695	Towards large-scale stochastic refraction tomography: a comparison of three evolutionary algorithms. <b>2020</b> , 68, 536-552  A new algorithm for normal and large-scale optimization problems: Nomadic People Optimizer.	1
695 694	Towards large-scale stochastic refraction tomography: a comparison of three evolutionary algorithms. <b>2020</b> , 68, 536-552  A new algorithm for normal and large-scale optimization problems: Nomadic People Optimizer. <b>2020</b> , 32, 10359-10386  Bayesian set pair analysis and machine learning based ensemble surrogates for optimal	1 31
695 694 693	Towards large-scale stochastic refraction tomography: a comparison of three evolutionary algorithms. 2020, 68, 536-552  A new algorithm for normal and large-scale optimization problems: Nomadic People Optimizer. 2020, 32, 10359-10386  Bayesian set pair analysis and machine learning based ensemble surrogates for optimal multi-aquifer system remediation design. 2020, 580, 124280  Investigation of the effect of tonus on the change in postural control strategy using	1 31 13
695 694 693	Towards large-scale stochastic refraction tomography: a comparison of three evolutionary algorithms. 2020, 68, 536-552  A new algorithm for normal and large-scale optimization problems: Nomadic People Optimizer. 2020, 32, 10359-10386  Bayesian set pair analysis and machine learning based ensemble surrogates for optimal multi-aquifer system remediation design. 2020, 580, 124280  Investigation of the effect of tonus on the change in postural control strategy using musculoskeletal simulation. 2020, 76, 298-304	1 31 13
695 694 693 692	Towards large-scale stochastic refraction tomography: a comparison of three evolutionary algorithms. 2020, 68, 536-552  A new algorithm for normal and large-scale optimization problems: Nomadic People Optimizer. 2020, 32, 10359-10386  Bayesian set pair analysis and machine learning based ensemble surrogates for optimal multi-aquifer system remediation design. 2020, 580, 124280  Investigation of the effect of tonus on the change in postural control strategy using musculoskeletal simulation. 2020, 76, 298-304  Artificial bee colony directive for continuous optimization. 2020, 87, 105982	1 31 13

687	A CMA-ES algorithm for solving the steelmaking scheduling problem involving time buffers. 2020,	
686	A Multi-Population Exploration-only Exploitation-only Hybrid on CEC-2020 Single Objective Bound Constrained Problems. <b>2020</b> ,	6
685	. 2020,	
684	Evaluating two multi-model simulation opproaches for managing groundwater contaminant plumes. <b>2020</b> , 590, 125427	6
683	A Brief Analysis of Conceptual Model Structure Uncertainty Using 36 Models and 559 Catchments. <b>2020</b> , 56, e2019WR025975	26
682	Identification of miRNA Biomarkers for Diverse Cancer Types Using Statistical Learning Methods at the Whole-Genome Scale. <b>2020</b> , 11, 982	1
681	A variant of EAM to uncover community structure in complex networks. <b>2020</b> , 16, 102	6
680	Evolving the Behavior of Machines: From Micro to Macroevolution. <b>2020</b> , 23, 101731	2
679	Performance analysis of real-coded evolutionary algorithms under a computationally expensive optimization scenario: 3DØD Comparative Radiography. <b>2020</b> , 97, 106793	2
678	An Improvement on Estimated Drifter Tracking through Machine Learning and Evolutionary Search. <b>2020</b> , 10, 8123	O
677	Evolving Losses for Unsupervised Video Representation Learning. 2020,	32
676	Incorporating Historical Spring Discharge Protection Into Sustainable Groundwater Management: A Case Study From Pearl Harbor Aquifer, Hawaill <b>2020</b> , 2,	6
675	An efficient equilibrium optimizer with mutation strategy for numerical optimization. <b>2020</b> , 96, 106542	34
674	Hidden behavior prediction of complex system based on time-delay belief rule base forecasting model. <b>2020</b> , 203, 106147	5
673	APPLD: Adaptive Planner Parameter Learning From Demonstration. 2020, 5, 4541-4547	14
672	RIDM: Reinforced Inverse Dynamics Modeling for Learning from a Single Observed Demonstration. <b>2020</b> , 5, 6262-6269	4
671	Numerical Optimization Methods for Metasurfaces. <b>2020</b> , 14, 1900445	41
670	Pixel-Level Weed Classification Using Evolutionary Selection of Local Binary Pattern in a Stochastic Optimised Ensemble. <b>2020</b> , 1, 1	O

# (2020-2020)

669	Estimation of the ground reaction forces from a single video camera based on the spring-like center of mass dynamics of human walking. <b>2020</b> , 113, 110074	1
668	Kinematic Structures Estimation on the RGB-D Images. <b>2020</b> ,	O
667	MAP-ACO: An efficient protocol for multi-agent pathfinding in real-time WSN and decentralized IoT systems. <b>2020</b> , 79, 103325	10
666	An adaptive resistance and stamina strategy-based dragonfly algorithm for solving engineering optimization problems. <b>2020</b> , ahead-of-print,	5
665	Critical review of bio-inspired optimization techniques. <b>2020</b> , e1528	3
664	Stepping ahead based hybridization of meta-heuristic model for solving Global Optimization Problems. <b>2020</b> ,	O
663	Mendelian evolutionary theory optimization algorithm. <b>2020</b> , 24, 14345-14390	13
662	Enhancing Evolutionary Algorithms by Efficient Population Initialization for Constrained Problems. <b>2020</b> ,	1
661	. 2020,	
660	Aerospace System Analysis and Optimization in Uncertainty. <b>2020</b> ,	2
660 659	Aerospace System Analysis and Optimization in Uncertainty. 2020,  A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human Locomotion. 2020,	3
	A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human	
659	A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human Locomotion. 2020,  A Modified Matrix Adaptation Evolution Strategy with Restarts for Constrained Real-World	3
659 658	A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human Locomotion. 2020,  A Modified Matrix Adaptation Evolution Strategy with Restarts for Constrained Real-World Problems. 2020,	3
659 658 657	A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human Locomotion. 2020,  A Modified Matrix Adaptation Evolution Strategy with Restarts for Constrained Real-World Problems. 2020,  Chaotic Dynamically Dimensioned Search Algorithm. 2020, 8, 152474-152499  A high-level and adaptive metaheuristic selection algorithm for solving high dimensional	3 4 2
659 658 657	A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human Locomotion. 2020,  A Modified Matrix Adaptation Evolution Strategy with Restarts for Constrained Real-World Problems. 2020,  Chaotic Dynamically Dimensioned Search Algorithm. 2020, 8, 152474-152499  A high-level and adaptive metaheuristic selection algorithm for solving high dimensional bound-constrained continuous optimization problems. 2020, 28, 1549-1566	3 4 2
659 658 657 656	A Task-Invariant Learning Framework of Lower-Limb Exoskeletons for Assisting Human Locomotion. 2020,  A Modified Matrix Adaptation Evolution Strategy with Restarts for Constrained Real-World Problems. 2020,  Chaotic Dynamically Dimensioned Search Algorithm. 2020, 8, 152474-152499  A high-level and adaptive metaheuristic selection algorithm for solving high dimensional bound-constrained continuous optimization problems. 2020, 28, 1549-1566  Optimization of high-channel count, switch matrices for multinuclear, high-field MRI. 2020, 15, e0237494	3 4 2 1 2

651	A new taxonomy of global optimization algorithms. <b>2020</b> , 1	12
650	On the use of ((1,lambda))-evolution strategy as efficient local search mechanism for discrete optimization: a behavioral analysis. <b>2020</b> , 20, 345	
649	An improved harmony search algorithm for solving day-ahead dispatch optimization problems of integrated energy systems considering time-series constraints. <b>2020</b> , 229, 110477	9
648	Cooperative-Coevolution-CMA-ES with Two-Stage Grouping. 2020,	1
647	Adaptive Structural Hyper-Parameter Configuration by Q-Learning. 2020,	3
646	Metaheuristic Optimization of Power and Energy Systems: Underlying Principles and Main Issues of the <b>R</b> ush to Heuristics□ <b>2020</b> , 13, 5097	8
645	PLS-CNN-BiLSTM: An End-to-End Algorithm-Based Savitzky Golay Smoothing and Evolution Strategy for Load Forecasting. <b>2020</b> , 13, 5464	17
644	Revealing soil-borne hydrogel effects on soil hydraulic properties using a roughness-triangular pore space model. <b>2020</b> , 19, e20071	
643	Thermal Stability of DETF MEMS Resonators: Numerical Modelling and Experimental Validation. <b>2020</b> ,	5
642	Multi-body 3D-2D registration for image-guided reduction of pelvic dislocation in orthopaedic trauma surgery. <b>2020</b> , 65, 135009	5
641	Dynamic differential annealed optimization: New metaheuristic optimization algorithm for engineering applications. <b>2020</b> , 93, 106392	41
640	Deep Neural Evolution. 2020,	5
639	Hybrid metaheuristic algorithm using butterfly and flower pollination base on mutualism mechanism for global optimization problems. <b>2020</b> , 37, 3665	22
638	Reliability Analysis via an Optimal Covariance Matrix Adaptation Evolution Strategy: Emphasis on Applications in Civil Engineering. <b>2020</b> ,	2
637	A New Differential Mutation Based Adaptive Harmony Search Algorithm for Global Optimization. <b>2020</b> , 10, 2916	1
636	A shape optimization of ?-shape Darrieus wind turbine under a given range of inlet wind speed. <b>2020</b> , 159, 286-299	6
635	Improved Salp Swarm Algorithm Based on Levy Flight and Sine Cosine Operator. <b>2020</b> , 8, 99740-99771	20
634	Multiple adaptive strategies based particle swarm optimization algorithm. <b>2020</b> , 57, 100731	27

633	Variable metric evolution strategies by mutation matrix adaptation. 2020, 541, 136-151	2
632	Parametrized reduced order modeling for cracked solids. <b>2020</b> , 121, 4537	1
631	A case learning-based differential evolution algorithm for global optimization of interplanetary trajectory design. <b>2020</b> , 94, 106451	10
630	A GPU-Enabled Compact Genetic Algorithm for Very Large-Scale Optimization Problems. <b>2020</b> , 8, 758	3
629	Marine Predators Algorithm: A nature-inspired metaheuristic. <b>2020</b> , 152, 113377	472
628	Frontier Applications of Nature Inspired Computation. 2020,	12
627	Underactuation Design for Tendon-Driven Hands via Optimization of Mechanically Realizable Manifolds in Posture and Torque Spaces. <b>2020</b> , 36, 708-723	2
626	Genetic Programming for Evolving a Front of Interpretable Models for Data Visualization. <b>2021</b> , 51, 5468-548	<b>2</b> 9
625	EvoBot: An Open-Source, Modular, Liquid Handling Robot for Scientific Experiments. <b>2020</b> , 10, 814	9
624	Efficient Calibration of a Conceptual Hydrological Model Based on the Enhanced GaussIlevenbergMarquardt Procedure. <b>2020</b> , 10, 3841	3
623	Evaluation of the ERA5 reanalysis as a potential reference dataset for hydrological modelling over North America. <b>2020</b> , 24, 2527-2544	122
622	NAC2H: The North American Climate Change and Hydroclimatology Data Set. <b>2020</b> , 56, e2020WR027097	6
621	FOPS: A new framework for the optimization with variable number of dimensions. <b>2020</b> , 30, e22335	6
620	Nonlinear constitutive force model selection, update and uncertainty quantification for periodically sequential impact applications. <b>2020</b> , 99, 2623-2646	3
619	A Geostatistical Evolution Strategy for Subsurface Characterization: Theory and Validation Through Hypothetical Two-Dimensional Hydraulic Conductivity Fields. <b>2020</b> , 56, no	4
618	Improved Ant Lion Optimizer Based on Spiral Complex Path Searching Patterns. <b>2020</b> , 8, 22094-22126	8
617	A hybrid memory-based dragonfly algorithm with differential evolution for engineering application. <b>2020</b> , 37, 2775	8
616	Evolutionary Algorithms Enhanced with Quadratic Coding and Sensing Search for Global Optimization. <b>2020</b> , 25, 7	3

615	Improved day ahead heating demand forecasting by online correction methods. 2020, 211, 109821		16
614	Adaptive Bayesian quadrature based statistical moments estimation for structural reliability analysis. <b>2020</b> , 198, 106902		12
613	Gaussian Process Surrogate Model with Composite Kernel Learning for Engineering Design. <b>2020</b> , 58, 1864-1880		5
612	Quantum based Whale Optimization Algorithm for wrapper feature selection. <b>2020</b> , 89, 106092		43
611	Nonlinear process modelling using echo state networks optimised by covariance matrix adaption evolutionary strategy. <b>2020</b> , 135, 106730		9
610	Lightning Stroke Localization 🖪 Time-Domain Approach Based on Evolutionary Optimization. <b>2020</b> , 62, 2111-2118		
609	A curious formulation robot enables the discovery of a novel protocell behavior. <b>2020</b> , 6, eaay4237		15
608	Diagonal Acceleration for Covariance Matrix Adaptation Evolution Strategies. <i>Evolutionary Computation</i> , <b>2020</b> , 28, 405-435	4.3	12
607	Multi-strategy brain storm optimization algorithm with dynamic parameters adjustment. <b>2020</b> , 50, 1289-	·1315	10
606	Artificial Evolution. 2020,		
605	A metaheuristic penalty approach for the starting point in nonlinear programming. <b>2020</b> , 54, 451-469		
604	Attraction, Dynamics, and Phase Transitions in Fire Ant Tower-Building. <b>2020</b> , 7, 25		2
603	Rotationally resolved electronic spectrum of N-Methylcarbazole in the gas phase: A study of methyl group internal rotation. <b>2020</b> , 1217, 128282		
602	A fast-convergent approach for damage assessment using CMA-ES optimization algorithm and modal parameters. <b>2020</b> , 10, 497-511		9
601	A Hybrid Deep Grouping Algorithm for Large Scale Global Optimization. <b>2020</b> , 24, 1112-1124		23
600	Wideband and Bandwidth-Controllable Hybrid-Cylindrical Glass Dielectric Resonator Antenna for		1
	Indoor Communication. <b>2020</b> , 8, 50414-50420		
599	Elite Representative Based Individual Adaptive Regeneration Framework for Differential Evolution. <b>2020</b> , 8, 61226-61245		3

## (2021-2020)

597	Toward semantic data imputation for a dengue dataset. <b>2020</b> , 196, 105803	6
596	Evolution strategies for continuous optimization: A survey of the state-of-the-art. <b>2020</b> , 56, 100694	15
595	Application of Model-Free and Model-Based Quality-by-Control (QbC) for the Efficient Design of Pharmaceutical Crystallization Processes. <b>2020</b> , 20, 3979-3996	16
594	Matrix adaptation evolution strategies for optimization under nonlinear equality constraints. <b>2020</b> , 54, 100653	3
593	Cooperative coevolutionary topology optimization using moving morphable components. <b>2021</b> , 53, 962-983	7
592	Runtime Performances of Randomized Search Heuristics for the Dynamic Weighted Vertex Cover Problem. <b>2021</b> , 83, 906-939	4
591	Chaos Game Optimization: a novel metaheuristic algorithm. <b>2021</b> , 54, 917-1004	62
590	Parallel Sequential Random Embedding Bayesian Optimization. <b>2021</b> , 2, 1	
589	Deep learning for the design of photonic structures. <b>2021</b> , 15, 77-90	168
588	The Relative Importance of Monetary Policy, Uncertainty, and Financial Shocks. <b>2021</b> , 32, 311-333	O
587	Cooperation search algorithm: A novel metaheuristic evolutionary intelligence algorithm for numerical optimization and engineering optimization problems. <b>2021</b> , 98, 106734	30
586	Predicting the risk of post-hepatectomy portal hypertension using a digital twin: A clinical proof of concept. <b>2021</b> , 74, 661-669	10
585	Programmable topotaxis of magnetic rollers in time-varying fields. <b>2021</b> , 17, 1538-1547	3
584	Training fuzzy inference system-based classifiers with Krill Herd optimization. <b>2021</b> , 214, 106625	1
583	Supplier-contractor coordination approach to managing demand fluctuations of ready-mix concrete. <b>2021</b> , 121, 103423	9
582	Beetle antenna strategy based grey wolf optimization. <b>2021</b> , 165, 113882	16
581	Modeling and Fitting of Three-Dimensional Mineral Microstructures by Multinary Random Fields. <b>2021</b> , 53, 877-904	1
580	Evaluation of the potential of using subsets of historical climatological data for ensemble streamflow prediction (ESP) forecasting. <b>2021</b> , 595, 125656	3

579	A model-based fatigue damage estimation framework of large-scale structural systems. <b>2021</b> , 20, 834-847	4
578	Large-Scale Evolution Strategy Based on Search Direction Adaptation. <b>2021</b> , 51, 1651-1665	9
577	Oppositional Crow Search Algorithm with mutation operator for global optimization and application in designing FOPID controller. <b>2021</b> , 12, 463-488	7
576	Heteroscedastic Gaussian Process Regression using Nearest Neighbor Point Estimates. 2021,	
575	Neuroevolution in Deep Neural Networks: Current Trends and Future Challenges. 2021, 1-1	12
574	An Improved SMA Algorithm for Solving Global Optimization Problems. <b>2021</b> , 619-634	
573	Enhancing Fireworks Algorithm in Local Adaptation and Global Collaboration. 2021, 451-465	3
572	. <b>2021</b> , 9, 121743-121758	O
571	Relative Performance of 1-D Versus 3-D Hydrodynamic, Water-Quality Models for Predicting Water Temperature and Oxygen in a Shallow, Eutrophic, Managed Reservoir. <b>2021</b> , 13, 88	2
570	Rock Hyraxes Swarm Optimization: A New Nature-Inspired Metaheuristic Optimization Algorithm. <b>2021</b> , 68, 643-654	5
569	Enhancing the competitive swarm optimizer with covariance matrix adaptation for large scale optimization. <b>2021</b> , 51, 4984-5006	4
568	Data-driven prediction and origin identification of epidemics in population networks. <b>2021</b> , 8, 200531	
567	A novel statistical approach to numerical and multidisciplinary design optimization problems using pattern search inspired Harris hawks optimizer. <b>2021</b> , 33, 7031-7072	10
566	A new feature clustering method based on crocodiles hunting strategy optimization algorithm for classification of MRI images. 1	2
565	. <b>2021</b> , 2, 31-40	3
564	An Efficient Numerical Method for Reaction-Diffusion Problems Based on Particle Swarm Optimization Algorithm. <b>2021</b> , 401-409	
563	Cooperative Three-Dimensional Position Mapping Based on Received Signal Strength Measurements: Algorithm Design and Field Test. <b>2021</b> , 1-1	О
562	Organizational Policy Learning and Evaluation Using Monte Carlo Methods. <b>2021</b> , 195-208	

## (2021-2021)

561	Solving nonlinear equation systems via clustering-based adaptive speciation differential evolution. <b>2021</b> , 18, 6034-6065	1
560	Enhanced equilibrium optimization method with fractional order chaotic and application engineering. <b>2021</b> , 33, 9849-9876	3
559	Fracture reduction planning and guidance in orthopaedic trauma surgery via multi-body image registration. <b>2021</b> , 68, 101917	3
558	A new configuration of autonomous CHP system based on improved version of marine predators algorithm: A case study. <b>2021</b> , 31, e12806	9
557	Robust flow control and optimal sensor placement using deep reinforcement learning. 2021, 913,	17
556	Performance of the ecosystem demography model (EDv2.2) in simulating gross primary production capacity and activity in a dryland study area. <b>2021</b> , 297, 108270	O
555	Integrated Tool Set for Control, Calibration, and Characterization of Quantum Devices Applied to Superconducting Qubits. <b>2021</b> , 15,	12
554	Improved Predictive Ability of KPLS Regression with Memetic Algorithms. <b>2021</b> , 9, 506	
553	A CFD data-driven aerodynamic model for fast and precise prediction of flapping aerodynamics in various flight velocities. <b>2021</b> , 915,	4
552	Metaheuristics: a comprehensive overview and classification along with bibliometric analysis. <b>2021</b> , 54, 4237-4316	21
551	A modified self-adaptive marine predators algorithm: framework and engineering applications. 1	9
550	Simultaneous Optimization and Heat Integration of an Aromatics Complex with a Surrogate Model. <b>2021</b> , 60, 3633-3647	1
549	Nonlinear Equations Solving with Intelligent Optimization Algorithms: A Survey. <b>2021</b> , 1, 15-32	25
548	Inverse Design of Self-Assembling Diamond Photonic Lattices from Anisotropic Colloidal Clusters. <b>2021</b> , 125, 2398-2410	3
547	Adaptive Kriging-based Methods for Failure Probability Evaluation: Focus on AK Methods. <b>2021</b> , 205-236	
546	Crack detection in Mindlin-Reissner plates under dynamic loads based on fusion of data and models. <b>2021</b> , 246, 106475	2
545	Inverse design of broadband and reconfigurable meta-optics. 2021,	
544	Disentangling the Effects of Uncertainty, Monetary Policy and Leverage Shocks on the Economy*. <b>2021</b> , 83, 1029-1065	2

543	hSMA-PS: a novel memetic approach for numerical and engineering design challenges. 1	4
542	Comparative Performance of Twelve Metaheuristics for Wind Farm Layout Optimisation. 1	6
541	Heat transfer relation-based optimization algorithm (HTOA). <b>2021</b> , 25, 8129-8158	10
540	Fitness-Based Linkage Learning in the Real-Valued Gene-Pool Optimal Mixing Evolutionary Algorithm. <b>2021</b> , 25, 358-370	O
539	Effects of land-cover and watershed protection futures on sustainable groundwater management in a heavily utilized aquifer in Hawaiii(USA). <b>2021</b> , 29, 1749-1765	2
538	A New Set of Mutation Operators for Dragonfly Algorithm. <b>2021</b> , 46, 8761-8802	O
537	Irrigation-Intensive Groundwater Modeling of Complex Aquifer Systems Through Integration of Big Geological Data. <b>2021</b> , 3,	1
536	A hybridized multi-algorithm strategy for engineering optimization problems. <b>2021</b> , 217, 106790	3
535	Generative Adversarial Networks-Enabled Human-Artificial Intelligence Collaborative Applications for Creative and Design Industries: A Systematic Review of Current Approaches and Trends. <b>2021</b> , 4, 604234	3
534	MMES: Mixture Model-Based Evolution Strategy for Large-Scale Optimization. <b>2021</b> , 25, 320-333	2
533	A hybrid self-adaptive invasive weed algorithm with differential evolution. 2021, 33, 929-953	3
532	The Arithmetic Optimization Algorithm. <b>2021</b> , 376, 113609	500
531	RegARD: Symmetry-Based Coarse Registration of Smartphone Colorful Point Clouds with CAD Drawings for Low-Cost Digital Twin Buildings. <b>2021</b> , 13, 1882	7
530	Large-Scale Evolutionary Strategy Based on Gradient Approximation. <b>2021</b> , 2021, 1-12	
529	Grounded action transformation for sim-to-real reinforcement learning. 2021, 110, 2469-2499	2
528	The Colony Predation Algorithm. <b>2021</b> , 18, 674-710	77
527	Automatic Calibration of Bed Friction Coefficients to Reduce the Influence of Seasonal Variation: Case of the Gironde Estuary. <b>2021</b> , 147, 05021004	1
526	How to tune the RBF SVM hyperparameters? An empirical evaluation of 18 search algorithms. <b>2021</b> , 54, 4771-4797	5

## (2021-2021)

525	Optimal Sensor Placement for Reliable Virtual Sensing Using Modal Expansion and Information Theory. <b>2021</b> , 21,	3
524	Political optimizer with interpolation strategy for global optimization. <b>2021</b> , 16, e0251204	1
523	Cognitive and autonomous QoT-driven optical line controller. <b>2021</b> , 13, E23	5
522	Multi-Objective Bayesian Optimisation Using an Exploitative Attainment Front Acquisition Function. <b>2021</b> ,	1
521	Introducing Parameter Clustering to the OED Procedure for Model Calibration of a Synthetic Inducible Promoter in S. cerevisiae. <b>2021</b> , 9, 1053	
520	A New Step-Size Adaptation Rule for CMA-ES Based on the Population Midpoint Fitness. 2021,	1
519	Comparison with State-of-the-Art: Traps and Pitfalls. <b>2021</b> ,	
518	Uncertainty of gridded precipitation and temperature reference datasets in climate change impact studies. <b>2021</b> , 25, 3331-3350	7
517	Criticality-Driven Evolution of Adaptable Morphologies of Voxel-Based Soft-Robots. 2021, 8, 673156	3
516	Direct linkage discovery with empirical linkage learning. 2021,	O
515	Saddle point optimization with approximate minimization oracle. 2021,	2
		2
514	Level generation for angry birds with sequential VAE and latent variable evolution. 2021,	0
514	Level generation for angry birds with sequential VAE and latent variable evolution. <b>2021</b> ,  Validation of forward simulations to predict the effects of bilateral plantarflexor weakness on gait. <b>2021</b> , 87, 33-42	
	Validation of forward simulations to predict the effects of bilateral plantarflexor weakness on gait.	O
513	Validation of forward simulations to predict the effects of bilateral plantarflexor weakness on gait. <b>2021</b> , 87, 33-42	o 5
513	Validation of forward simulations to predict the effects of bilateral plantarflexor weakness on gait. <b>2021</b> , 87, 33-42  A Hybrid Whale Optimization Algorithm for Global Optimization. <b>2021</b> , 9, 1477	o 5 2
513 512 511	Validation of forward simulations to predict the effects of bilateral plantarflexor weakness on gait. 2021, 87, 33-42  A Hybrid Whale Optimization Algorithm for Global Optimization. 2021, 9, 1477  A novel flight style allowing the smallest featherwing beetles to excel.  Convergence rate of the (1+1)-evolution strategy with success-based step-size adaptation on	o 5 2 2

507	Capturing hotspots of fresh submarine groundwater discharge using a coupled surface ubsurface model. <b>2021</b> , 598, 126356	О
506	Robust parameter estimation of a PEMFC via optimization based on probabilistic model building. <b>2021</b> , 185, 218-237	3
505	Exploration and Exploitation Zones in a Minimalist Swarm Optimiser. 2021, 23,	1
504	An Interactive Evolution Strategy based Deep Convolutional Generative Adversarial Network for 2D Video Game Level Procedural Content Generation. <b>2021</b> ,	O
503	IGS-CMAES: A Two-Stage Optimization for Ground Deformation and DEM Error Estimation in Time Series InSAR Data. <b>2021</b> , 13, 2615	
502	Olympus: a benchmarking framework for noisy optimization and experiment planning. <b>2021</b> , 2, 035021	14
501	Hybrid slime mould algorithm with adaptive guided differential evolution algorithm for combinatorial and global optimization problems. <b>2021</b> , 174, 114689	45
500	Deep reinforcement learning for modeling human locomotion control in neuromechanical simulation. <b>2021</b> , 18, 126	10
499	Reproducible Hyperparameter Optimization. 1-16	4
498	The Impact of Machine Learning on 2D/3D Registration for Image-Guided Interventions: A Systematic Review and Perspective. <b>2021</b> , 8, 716007	4
497	A New Hybrid Algorithm for Multi-Objective Reactive Power Planning via FACTS Devices and Renewable Wind Resources. <b>2021</b> , 21,	1
496	DiffAqua. <b>2021</b> , 40, 1-14	3
495	Multiscale quantum harmonic oscillator algorithm with guiding information for single objective optimization. <b>2021</b> , 65, 100916	0
494	A DNA-structured mathematical model of cell-cycle progression in cyclic hypoxia.	
493	Combination of PAT and mechanistic modeling tools in a fully continuous powder to granule line: Rapid and deep process understanding. <b>2021</b> , 388, 70-81	5
492	Multi-zone optimisation of high-rise buildings using artificial intelligence for sustainable metropolises. Part 2: Optimisation problems, algorithms, results, and method validation. <b>2021</b> , 224, 309-326	4
491	Learning Adaptive Differential Evolution Algorithm From Optimization Experiences by Policy Gradient. <b>2021</b> , 25, 666-680	6
490	A four-step decision-making grey wolf optimization algorithm. <b>2021</b> , 25, 14375	1

489	Improved Manta Ray Foraging Optimization for Parameters Identification of Magnetorheological Dampers. <b>2021</b> , 9, 2230	3
488	A corrected and improved symbiotic organisms search algorithm for continuous optimization. <b>2021</b> , 177, 114981	1
487	Sorting OAM modes with metasurfaces based on raytracing improved optical coordinate transformation. <b>2021</b> , 29, 34900-34912	2
486	Stepping ahead Firefly Algorithm and hybridization with evolution strategy for global optimization problems. <b>2021</b> , 109, 107517	7
485	Dual preferred learning embedded asynchronous differential evolution with adaptive parameters for engineering applications. <b>2021</b> , 46, 1	
484	Optimizing the Sowing Date to Improve Water Management and Wheat Yield in a Large Irrigation Scheme, through a Remote Sensing and an Evolution Strategy-Based Approach. <b>2021</b> , 13, 3789	1
483	Towards more realistic runoff projections by removing limits on simulated soil moisture deficit. <b>2021</b> , 600, 126505	1
482	A self-adaptive hybridized differential evolution naked mole-rat algorithm for engineering optimization problems. <b>2021</b> , 383, 113916	3
481	Adaptive memetic differential evolution with niching competition and supporting archive strategies for multimodal optimization. <b>2021</b> , 573, 316-331	6
480	A Modification of the PBIL Algorithm Inspired by the CMA-ES Algorithm in Discrete Knapsack Problem. <b>2021</b> , 11, 9136	O
479	Optimization algorithms as training approaches for prediction of reference evapotranspiration using adaptive neuro fuzzy inference system. <b>2021</b> , 255, 107003	10
478	Derivative-free reinforcement learning: a review. <b>2021</b> , 15, 1	6
477	Novel Design Framework for Dual-Band Frequency Selective Surfaces Using Multi-Variant Differential Evolution. <b>2021</b> , 9, 2381	0
476	Hunger games search: Visions, conception, implementation, deep analysis, perspectives, and towards performance shifts. <b>2021</b> , 177, 114864	203
475	Uncertainty quantification for multidisciplinary launch vehicle design using model order reduction and spectral methods. <b>2021</b> , 187, 295-314	О
474	CS-DE: Cooperative Strategy based Differential Evolution with population diversity enhancement. <b>2021</b> , 577, 663-696	6
473	United equilibrium optimizer for solving multimodal image registration. <b>2021</b> , 233, 107552	О
472	End-to-end deep meta modelling to calibrate and optimize energy consumption and comfort. <b>2021</b> , 250, 111218	2

471	Energy consumption prediction of appliances using machine learning and multi-objective binary grey wolf optimization for feature selection. <b>2021</b> , 111, 107745	3
470	Comparison of metaheuristic optimization algorithms for solving constrained mechanical design optimization problems. <b>2021</b> , 183, 115351	27
469	RUN beyond the metaphor: An efficient optimization algorithm based on Runge Kutta method. <b>2021</b> , 181, 115079	135
468	Internal combustion engine calibration using optimization algorithms. 2022, 305, 117894	3
467	Development of a 2NN-MEAM potential for TiB system and studies of the temperature dependence of the nanohardness of TiB2. <b>2022</b> , 201, 110875	O
466	An Improved Equilibrium Optimizer Algorithm for Features Selection: Methods and Analysis. <b>2021</b> , 9, 120309-120327	3
465	Model Predictive Control and Reinforcement Learning based on Probabilistic Inference. <b>2021</b> , 39, 591-596	
464	An orthogonal opposition-based-learning YinMang-pair optimization algorithm for engineering optimization. 1	6
463	Reinforcement learning enhanced quantum-inspired algorithm for combinatorial optimization. <b>2021</b> , 2, 025009	6
462	Covariance Matrix Adaptation Evolutionary Algorithm for Multi-task Optimization. <b>2021</b> , 25-36	1
461	Hybridizing Niching, Particle Swarm Optimization, and Evolution Strategy for Multimodal Optimization. <b>2020</b> , PP,	3
460	On Evolutionary Optimization of Large Problems Using Small Populations. <b>2005</b> , 1145-1154	5
459	On the Ultimate Convergence Rates for Isotropic Algorithms and the Best Choices Among Various Forms of Isotropy. <b>2006</b> , 32-41	10
458	Optimizing Continuous Problems Using Estimation of Distribution Algorithm Based on Histogram Model. <b>2006</b> , 545-552	7
457	Mathematical Optimization. <b>2013</b> , 13-25	1
456	Learning to Use Toes in a Humanoid Robot. <b>2018</b> , 168-179	5
455	Efficient Bayesian Optimization Based on Parallel Sequential Random Embeddings. 2020, 453-466	1
454	A Memetic Approach for the Orienteering Problem. <b>2020</b> , 38-48	1

# (2004-2020)

453	Assisted Parameter and Behavior Calibration in Agent-Based Models with Distributed Optimization. <b>2020</b> , 93-105	2
452	An Improved CMA-ES for Solving Large Scale Optimization Problem. <b>2020</b> , 386-396	2
451	On Averaging the Best Samples in Evolutionary Computation. <b>2020</b> , 661-674	О
450	Generalizing Spatial Transformers to Projective Geometry with Applications to 2D/3D Registration. <b>2020</b> , 12263, 329-339	9
449	Black Box Algorithm Selection by Convolutional Neural Network. <b>2020</b> , 264-280	1
448	Probabilistic Temporal Head Pose Estimation Using a Hierarchical Graphical Model. <b>2014</b> , 328-344	15
447	Viability Principles for Constrained Optimization Using a (1+1)-CMA-ES. <b>2014</b> , 272-281	3
446	Maximum Likelihood-Based Online Adaptation of Hyper-Parameters in CMA-ES. <b>2014</b> , 70-79	7
445	Quasi-random Numbers Improve the CMA-ES on the BBOB Testbed. <b>2016</b> , 58-70	2
444	Parameter Setting for Multicore CMA-ES with Large Populations. <b>2016</b> , 109-122	2
443	Bayesian Uncertainty Quantification and Propagation (UQ+P): State-of-the-Art Tools for Linear and Nonlinear Structural Dynamics Models. <b>2016</b> , 137-170	3
442	Online Model Selection for Restricted Covariance Matrix Adaptation. <b>2016</b> , 3-13	6
441	From Field Data to Attitude Formation. <b>2017</b> , 1-14	1
440	CMA-ES with Surrogate Model Adapting to Fitness Landscape. <b>2017</b> , 417-429	O
439	Meta-heuristics for Improved RF Emitter Localization. <b>2017</b> , 207-223	1
438	Information-Driven Modeling of Structures Using a Bayesian Framework. <b>2018</b> , 38-61	3
437	Learning a Humanoid Kick with Controlled Distance. <b>2017</b> , 45-57	12
436	Ruffled by Ridges: How Evolutionary Algorithms Can Fail. <b>2004</b> , 294-306	11

435	A Mixed Bayesian Optimization Algorithm with Variance Adaptation. <b>2004</b> , 352-361	22
434	Numerical Optimization with Real-Valued Estimation-of-Distribution Algorithms. 2006, 91-120	16
433	Flow Optimization Using Stochastic Algorithms. <b>2006</b> , 213-229	2
432	Evolutionary Optimisation Methods with Uncertainty for Modern Multidisciplinary Design in Aeronautical Engineering. <b>2009</b> , 271-284	9
431	Covariance Matrix Adaptation Revisited IThe CMSA Evolution Strategy II2008, 123-132	65
430	Enhancing the Performance of Maximumlikelihood Gaussian EDAs Using Anticipated Mean Shift. <b>2008</b> , 133-143	37
429	Uncertainty Handling in Model Selection for Support Vector Machines. 2008, 185-194	4
428	Eself-Adaptive Weighted Multirecombination Evolution Strategy with Scaled Weights on the Noisy Sphere. <b>2008</b> , 11-20	1
427	A Simple Modification in CMA-ES Achieving Linear Time and Space Complexity. 2008, 296-305	92
426	When Does Quasi-random Work?. 2008, 325-336	7
425	Evolution Strategies for Direct Policy Search. <b>2008</b> , 428-437	22
424	Memetic Algorithm for Intense Local Search Methods Using Local Search Chains. 2008, 58-71	7
423	Variable Metric Reinforcement Learning Methods Applied to the Noisy Mountain Car Problem. <b>2008</b> , 136-150	9
422	Recombination for Learning Strategy Parameters in the MO-CMA-ES. <b>2009</b> , 155-168	9
421	Validation of a Morphogenesis Model of Drosophila Early Development by a Multi-objective Evolutionary Optimization Algorithm. <b>2009</b> , 176-190	7
420	Bandit-Based Estimation of Distribution Algorithms for Noisy Optimization: Rigorous Runtime Analysis. <b>2010</b> , 97-110	6
419	Registration of a statistical shape model of the lumbar spine to 3D ultrasound images. <b>2010</b> , 13, 68-75	25
418	Bidirectional Relation between CMA Evolution Strategies and Natural Evolution Strategies. <b>2010</b> , 154-163	19

417	Physically-Based Character Control in Low Dimensional Space. <b>2010</b> , 23-34	3
416	A Comparative Study of CMA-ES on Large Scale Global Optimisation. <b>2010</b> , 303-312	9
415	Shock Control Bump Design Optimization on Natural Laminar Aerofoil. <b>2011</b> , 253-259	1
414	Evolutionary Robotics: Exploring New Horizons. <b>2011</b> , 3-25	21
413	Optimization of Aircraft Wake Alleviation Schemes through an Evolution Strategy. <b>2011</b> , 210-221	1
412	Not All Parents Are Equal for MO-CMA-ES. <b>2011</b> , 31-45	6
411	Morphogenetic Self-Reconfiguration of Modular Robots. <b>2011</b> , 143-171	7
410	Evolutionary Computation for Reinforcement Learning. <b>2012</b> , 325-355	20
409	Mutagenesis as a Diversity Enhancer and Preserver in Evolution Strategies. 2012, 725-732	1
408	Evolutionary Regression Machines for Precision Agriculture. <b>2012</b> , 356-365	1
407	On the Foundations and the Applications of Evolutionary Computing. <b>2013</b> , 3-89	2
406	HappyCat 🖪 Simple Function Class Where Well-Known Direct Search Algorithms Do Fail. <b>2012</b> , 367-376	5
405	On Spectral Invariance of Randomized Hessian and Covariance Matrix Adaptation Schemes. <b>2012</b> , 448-457	2
404	Convergence of the Continuous Time Trajectories of Isotropic Evolution Strategies on Monotonic (mathcal C^2)-composite Functions. <b>2012</b> , 42-51	9
403	An Empirical Comparison of CMA-ES in Dynamic Environments. <b>2012</b> , 529-538	4
402	Optimization by 🛭-Constrained Markov Fitness Modelling. <b>2012</b> , 250-264	2
401	A Differential Evolution Framework with Ensemble of Parameters and Strategies and Pool of Local Search Algorithms. <b>2014</b> , 615-626	11
400	Nature Inspired Optimization Techniques for Metamaterial Design. <b>2013</b> , 97-146	10

399	Evolutionary Algorithms. <b>2015</b> , 621-635	1
398	Evolutionary Artificial Neural Networks: Comparative Study on State-of-the-Art Optimizers. <b>2020</b> , 302-318	9
397	Optimization Methods in Antenna Engineering. <b>2015</b> , 1-47	4
396	Re-sampled inheritance compact optimization. <b>2020</b> , 208, 106416	4
395	Probing the variability of the fine-structure constant with the VLT/UVES. 2004, 415, L7-L11	153
394	Evolution strategies applied to the problem of line profile decomposition in QSO spectra. <b>2005</b> , 431, 1167-1175	10
393	Optimal turbine blade design enabled by auxetic honeycomb. <b>2020</b> , 29, 125004	4
392	Comparison of gridded datasets for the simulation of streamflow in Africa. <b>2020</b> , 974, 012001	1
391	Sinusoidal voltage protocols for rapid characterisation of ion channel kinetics.	3
390	COVID-19 Asymptomatic Infection Estimation.	12
389	Optimal design of deterministic lateral displacement device for viscosity-contrast-based cell sorting. <b>2018</b> , 3,	7
388	PlaNet of the Bayesians: Reconsidering and Improving Deep Planning Network by Incorporating Bayesian Inference. <b>2020</b> ,	8
387	Improved Whale Optimization Algorithm via Cellular Automata. 2020,	1
386	Linear Matrix Factorization Embeddings for Single-objective Optimization Landscapes. 2020,	4
385	Multiobjectivization of Local Search: Single-Objective Optimization Benefits From Multi-Objective Gradient Descent. <b>2020</b> ,	5
384	sMF-BO-2CoGP: A Sequential Multi-Fidelity Constrained Bayesian Optimization Framework for Design Applications. <b>2020</b> , 20,	14
383	Computational design of metallophone contact sounds. <b>2015</b> , 34, 1-13	34
382	Fully perceptual-based 3D spatial sound individualization with an adaptive variational autoencoder. <b>2017</b> , 36, 1-13	7

381	A view of estimation of distribution algorithms through the lens of expectation-maximization. ${f 2020}$	2
380	Quality diversity for multi-task optimization. <b>2020</b> ,	10
379	Leveraging conditional linkage models in gray-box optimization with the real-valued gene-pool optimal mixing evolutionary algorithm. <b>2020</b> ,	1
378	Large-Scale Analysis of Global Gridded Precipitation and Temperature Datasets for Climate Change Impact Studies. <b>2020</b> , 21, 2623-2640	2
377	Hierarchical Bayesian inference for ion channel screening dose-response data. 1, 6	15
376	Hierarchical Bayesian inference for ion channel screening dose-response data. <b>2016</b> , 1, 6	18
375	Structural health monitoring through meta-heuristics - comparative performance study. <b>2016</b> , 1, 315-327	2
374	Bayesian estimation of tension in bridge hangers using modal frequency measurements. <b>2016</b> , 3, 349-375	6
373	Meta-atom library generation via an efficient multi-objective shape optimization method. <b>2020</b> , 28, 24229-24	1243
372	Review of numerical optimization techniques for meta-device design [Invited]. 2019, 9, 1842	107
371	Modeling the Evolution of Beliefs Using an Attentional Focus Mechanism. <b>2015</b> , 11, e1004558	7
370	Unbiased and efficient log-likelihood estimation with inverse binomial sampling. <b>2020</b> , 16, e1008483	8
369	In-silico modeling of the mitotic spindle assembly checkpoint. <b>2008</b> , 3, e1555	35
368	Artificial evolution by viability rather than competition. <b>2014</b> , 9, e86831	11
367	Generation of the Human Biped Stance by a Neural Controller Able to Compensate Neurological Time Delay. <b>2016</b> , 11, e0163212	13
367 366		13 32
	Time Delay. <b>2016</b> , 11, e0163212	

363	Computational Intelligence: Past, Today, and Future. <b>2010</b> , 1-46	6
362	Comparison of Searching Behaviour of Three Evolutionary Algorithms Applied to Water Distribution System Design Optimization. <b>2020</b> , 12, 695	8
361	Shape spaces via medial axis transforms for segmentation of complex geometry in 3D voxel data. <b>2013</b> , 7, 1-25	1
360	Chaos Synchronization with Genetic Engineering Algorithm for Secure Communications. <b>2011</b> , 476-509	4
359	Probabilistic Inference on Noisy Time Series (PINTS). <b>2019</b> , 7,	16
358	Quantitative perturbation-based analysis of gene expression predicts enhancer activity in early Drosophila embryo. <b>2016</b> , 5,	27
357	Design of Rifling Profile to Increase Lifespan of the Gun Barrel. <b>2018</b> , 35, 887-892	1
356	Optimization of Single-stage Mixed Refrigerant LNG Process Considering Inherent Explosion Risks. <b>2014</b> , 52, 467-474	3
355	Fitting Coefficient Setting Method for the Modified Point Mass Trajectory Model Using CMA-ES. <b>2016</b> , 19, 95-104	2
354	APPLI: Adaptive Planner Parameter Learning From Interventions. 2021,	2
353	Emergent Hand Morphology and Control from Optimizing Robust Grasps of Diverse Objects. 2021,	
352	Generating and Blending Game Levels via Quality-Diversity in the Latent Space of a Variational Autoencoder. <b>2021</b> ,	O
351	Calibrating Dynamic Traffic Assignment Models by Parallel Search using Active-CMA-ES. 2021,	
350	A basin-scale aquifer characterization using an inverse analysis based on groundwater level fluctuation in response to precipitation: Practical application to a watershed in Jeju Island, South Korea. <b>2021</b> , 37, 100933	
349	Cross-Pharma Collaboration for the Development of a Simulation Tool for the Model-Based Digital Design of Pharmaceutical Crystallization Processes (CrySiV).	2
348	Enhanced multi-swarm cooperative particle swarm optimizer. <b>2021</b> , 100989	7
347	Dynamic Levy Flight Chimp Optimization. <b>2022</b> , 235, 107625	11
346	An entropy minimization based multilevel colour thresholding technique for analysis of breast thermograms using equilibrium slime mould algorithm. <b>2021</b> , 113, 107955	7

Comparing Search Algorithms for the Temperature Inversion Problem. 2004, 1340-1351 345 Vortex Methods for Massively Parallel Computer Architectures. 2008, 479-489 344 Cumulative Step Length Adaptation for Evolution Strategies Using Negative Recombination 5 343 Weights. 2008, 545-554 Proposal and Evaluation of Functionally Specialized CMA-ES. 2009, 24, 58-68 342 Uncertainty Based MDO of UAS Using HAPMOEA. 2009, 649-654 341 Study of the Influence of the Local Search Method in Memetic Algorithms for Large Scale 340 Continuous Optimization Problems. 2009, 221-234 Chaotic-Based Communication Systems. 2010, 1-12 339 Reducing the Learning Time of Tetris in Evolution Strategies. 2012, 193-204 338 Object-Oriented Programming of Optimizers Examples in Scilab. 499-538 2 337 Design of Rollover Prevention Controller Using Game-Theoretic Approach. 2013, 37, 1429-1436 336 Designing Groundwater Supply Systems Using the Mesh Adaptive Basin Hopping Algorithm. 2014, 407-421 335 Natural Gradient Approach for Linearly Constrained Continuous Optimization. 2014, 252-261 334 On Low Complexity Acceleration Techniques for Randomized Optimization. 2014, 130-140 333 1 Comparison Among Yaw and Roll Motion Controllers for Rollover Prevention. 2014, 20, 701-705 332 Comparison among Active Roll Controllers for Rollover Prevention and Ride Comfort 331  $\circ$ Enhancement. 2014, 20, 828-834 Reactive Power and Voltage Control Based on Mesh Adaptive Direct Search Algorithm. 2015, 217-231 330 Artificial Evolution. 2016, 7-28 329 On the Codimension of the Set of Optima: Large Scale Optimisation with Few Relevant Variables. 328 **2016**, 234-247

327	What Does the Evolution Path Learn in CMA-ES?. <b>2016</b> , 751-760	2
326	Evolutionary Strategies. <b>2016</b> , 83-91	
325	Bibliography. 127-148	
324	A Closed-Loop Gait for Humanoid Robots Combining LIPM with Parameter Optimization. <b>2017</b> , 71-83	2
323	Dynamic Cyclone Wind-Intensity Prediction Using Co-Evolutionary Multi-task Learning. 2017, 618-627	2
322	Univariate Gaussian Model for Multimodal Inseparable Problems. <b>2017</b> , 612-623	1
321	[Paper] Color Reproduction of a Multiband 3D Projector. <b>2017</b> , 5, 134-140	
320	Co-evolutionary Multi-task Learning for Modular Pattern Classification. <b>2017</b> , 692-701	2
319	Gbest-Guided Covariance Matrix Adaptation Evolution Strategy for Large Scale Global Optimization. <b>2017</b> , 3-13	
318	Bayesian Optimal Experimental Design Using Asymptotic Approximations. <b>2017</b> , 273-275	O
317	Computation of Berge-Zhukovskii Equilibrium in Discrete Time Dynamic Games. 2018, 24-33	
316	Numerical Solution of Singularly Perturbed Convection Delay Problems Using Self-adaptive Differential Evolution Algorithm. <b>2018</b> , 650-661	1
315	Investigating the Impact of Road Roughness on Routing Performance: An Evolutionary Algorithm Approach. <b>2018</b> , 572-582	
314	Interactive Car Parking Simulation Based on On-line Trajectory Optimization. 2018, 270-284	
313	A Functional Optimization Method for Continuous Domains. <b>2018</b> , 254-265	
312	Investigation of the cylinder cut-out for medium-speed dual-fuel engines. 2018, 209-224	
311	A Discrete Version of CMA-ES.	1
310	Knowledge Sharing for Population Based Neural Network Training. <b>2018</b> , 258-269	1

309	MoonFit, a minimal interface for fitting ODE dynamical models, bridging simulation by experimentalists and customization by C++ programmers.	О
308	Flow-wise or path-wise: diffusion in a fragmented dendritic network and implications for eels.	
307	Algorithm Selector and Prescheduler in the ICON Challenge. <b>2019</b> , 203-219	1
306	Evolving Pictures in Image Transition Space. <b>2019</b> , 679-690	
305	Leveraging Reinforcement Learning Techniques for Effective Policy Adoption and Validation. 2019, 311-322	О
304	Pipeline Pressures and Sectoral Inflation Dynamics.	2
303	Asynchronous classification-based optimization. 2019,	1
302	Learning Low-Level Behaviors and High-Level Strategies in Humanoid Soccer. <b>2020</b> , 537-548	1
301	Attraction, Dynamics, and Phase Transitions in Fire Ant Tower-Building.	
300	Automated Development of DNN Based Spoken Language Systems Using Evolutionary Algorithms. <b>2020</b> , 97-129	О
299	Learning Optimal Control of Water Distribution Networks Through Sequential Model-Based Optimization. <b>2020</b> , 303-315	1
298	Deep generative model for non-convex constraint handling. <b>2020</b> ,	2
297	Design principles for matrix adaptation evolution strategies. <b>2020</b> ,	
296	Optimization and Inverse-design Techniques for Metalens Synthesis. 2020,	
295	Optimal Allocation of Distributed Generations with SOP in Distribution Systems. <b>2020</b> ,	1
294	Multiscale molecular simulations of the morphological evolution of small-molecule organic solar cells during the vacuum codeposition process. <b>2020</b> , 4,	
293	Robust Evolutionary Bi-objective Optimization for Prostate Cancer Treatment with High-Dose-Rate Brachytherapy. <b>2020</b> , 441-453	0
292	Reinforcement Learning. <b>2020</b> , 389-414	1

291	One-Pixel Attack: Understanding and Improving Deep Neural Networks with Evolutionary Computation. <b>2020</b> , 401-430	1
290	Simple Surrogate Model Assisted Optimization with Covariance Matrix Adaptation. 2020, 184-197	2
289	Analysis of Rewards in Bernoulli Bandits Using Martingales. <b>2020</b> ,	
288	Characterization and Validation of Shock Absorbing Hyperelastic Material Using Analytical and Experimental Methods. <b>2021</b> , 115-125	
287	Performance Analysis of Cost and Accuracy for Whale Swarm and RMSprop Optimizer. 993, 012080	О
286	Joint Opposite Selection (JOS): A premiere joint of selective leading opposition and dynamic opposite enhanced HarrisIhawks optimization for solving single-objective problems. <b>2022</b> , 188, 116001	4
285	Interaction of Brain, Body and Environment. <b>2020</b> , 38, 889-894	
284	Automatic Calibration of a Farm Irrigation Model: A Multi-Modal Optimization Approach. <b>2020</b> , 192-204	
283	Overview of Problem Formulations and Optimization Algorithms in the Presence of Uncertainty. <b>2020</b> , 147-183	
282	Damage Identification of Structures Through Machine Learning Techniques with Updated Finite Element Models and Experimental Validations. <b>2020</b> , 143-154	O
281	Adversarial Optimization Approach for Development of Robust Controllers. <b>2020</b> , 384-399	
280	MEMS Resonators: Numerical Modeling. <b>2020</b> , 1159-1166	
279	Comparison of Metaheuristic Methods for Template Matching. <b>2020</b> , 153-166	
278	Multi-fidelity Optimization Approach Under Prior and Posterior Constraints and Its Application to Compliance Minimization. <b>2020</b> , 81-94	1
277	Adaptive Stochastic Natural Gradient Method for Optimizing Functions with Low Effective Dimensionality. <b>2020</b> , 719-731	0
276	Training effective deep reinforcement learning agents for real-time life-cycle production optimization. <b>2021</b> , 208, 109766	12
275	Reptile Search Algorithm (RSA): A nature-inspired meta-heuristic optimizer. <b>2021</b> , 116158	120
274	Library for evolutionary algorithms in Python (LEAP). <b>2020</b> ,	2

## (2021-2020)

273	Continuous optimization by hierarchical gaussian mixture with clustering embedded resource allocation. <b>2020</b> ,	0
272	New Aerospace Design Challenges: Robust Multidisciplinary Evolutionary Techniques. 2009, 343-358	
271	Optimum Wind Farm Layouts: A Many-Objective Perspective and Case Study. 2019, 707-718	
270	Providing Intelligence to Evolutionary Computational Methods. 2007, 473-481	
269	Enhancing Parameter Estimation of Biochemical Networks by Exponentially Scaled Search Steps. <b>2008</b> , 177-187	0
268	Evolution of Descent Directions. <b>2008</b> , 221-237	
267	Covariance matrix adaptive strategy for a multi-objective evolutionary algorithm based on reference point. <b>2020</b> , 39, 7315-7332	1
266	Application of Potentiometric Ion-Breakthrough to Assess Individual Diffusion Coefficients of Ions in Ion-Selective Membranes. <b>2020</b> , 167, 147506	2
265	Gaussian Process-Based Confidence Estimation for Hybrid System Falsification. 2021, 330-348	1
264	Reconstructing the Material Properties of a Scalar Metasurface - A Stochastic Optimization Approach. <b>2021</b> ,	1
263	On the use of single non-uniform mutation in lightweight metaheuristics. <b>2022</b> , 26, 2259	О
262	A survey, taxonomy and progress evaluation of three decades of swarm optimisation. 1	O
261	Korali: Efficient and scalable software framework for Bayesian uncertainty quantification and stochastic optimization. <b>2021</b> , 114264	1
260	Komodo Mlipir Algorithm. <b>2021</b> , 114, 108043	1
259	An information entropy-based evolutionary computation for multi-factorial optimization. 2021, 108071	3
258	A review of population-based metaheuristics for large-scale black-box global optimization: Part A. <b>2021</b> , 1-1	3
257	Design of Constraint Coding Sets for Archive DNA Storage. <b>2021</b> , PP,	7
256	3D Spatial Sound Individualization with Perceptual Feedback. <b>2021</b> , 571-595	

255	Cooperative Localization and Association of Commercial-Off-the-Shelf Sensors in Three-Dimensional Aircraft Cabin. <b>2021</b> , 1-12	1
254	Learning Robust Policies for Generalized Debris Capture with an Automated Tether-Net System. <b>2022</b> ,	
253	Cascading Model-Based Framework for the Sustainability Assessment of a Multipurpose Reservoir in a Changing Climate. <b>2022</b> , 148,	0
252	Battery parameter identification strategy based on modified coot optimization algorithm. <b>2022</b> , 46, 103848	6
251	Extending a physics-based constitutive model using genetic programming. 2022, 9, 100080	О
250	An ODE method to prove the geometric convergence of adaptive stochastic algorithms. <b>2022</b> , 145, 269-307	О
249	Modified Slime Mould Algorithm via Levy Flight. <b>2020</b> ,	4
248	Bayesian Optimization for Developmental Robotics with Meta-Learning by Parameters Bounds Reduction. <b>2020</b> ,	О
247	A Gaussian Process Assisted Offline Estimation of Multivariate Gaussian Distribution Algorithm. <b>2020</b> ,	Ο
246	Optimization of Electricity Consumption using Grey Wolf Algorithm. 2020,	1
245	Learning Hierarchical Acquisition Functions for Bayesian Optimization. 2020,	
244	Deep Reinforcement Learning for Humanoid Robot Dribbling. <b>2020</b> ,	2
243	Dual Models to Facilitate Learning of Policy Network. <b>2020</b> ,	
242	Pricing and Matching Optimization of On-demand Mobility Services for Multi-locational Curbside Stopping Activities.	
241	Learning to Optimize Black-Box Functions with Extreme Limits on the Number of Function Evaluations. <b>2021</b> , 7-24	
240	Multi-fidelity Surrogate Assisted Design Optimisation of an Airfoil under Uncertainty Using Far-Field Drag Approximation. <b>2021</b> , 35-53	
239	Dribble Optimization Of Humanoid Soccer Robot Based on Overlapping Layered Learning. 2021,	
238	Learning and Interactive Design of Shared Control Templates. 2021,	O

237	Multi-Pronged Safe Bayesian Optimization for High Dimensions. 2021,	О
236	Accelerating Task Completion in IIoT Based Smart Factory Through Optimal Restart. 2021,	
235	Optimizing Univector Field Navigation Parameters Using CMA-ES.	
234	AUV Navigation Correction Based on Automated Multibeam Tile Matching <b>2022</b> , 22,	
233	Dimensional Learning Strategy-Based Grey Wolf Optimizer for Solving the Global Optimization Problem <b>2022</b> , 2022, 3603607	0
232	Simulation-based optimization in architecture and building engineering <b>R</b> esults from an international user survey in practice and research. <b>2022</b> , 259, 111863	1
231	Machine Learning-Based Optimization of Chiral Photonic Nanostructures: Evolution- and Neural Network-Based Designs. <b>2022</b> , 16, 2100571	О
230	Individuals redistribution based on differential evolution for covariance matrix adaptation evolution strategy <b>2022</b> , 12, 986	
229	Effect of Kinetic and Thermodynamic Properties of Solid Contact Ion-Selective Electrodes on the Electrochemical Impedance Spectroscopy Response. <b>2022</b> , 169, 026509	О
228	Hydrological shifts threaten water resources.	
227	A beta salp swarm algorithm meta-heuristic for inverse kinematics and optimization. 1	1
226	Dissecting the 2015 Chinese Stock Market Crash.	
225	Integration of heterogeneous biological data in multiscale mechanistic model calibration: application to lung adenocarcinoma.	1
224	A hybrid cooperative differential evolution assisted by CMA-ES with local search mechanism. 1	О
223	A Novel Biologically Inspired Approach for Clustering and Multi-Level Image Thresholding: Modified Harris Hawks Optimizer. 1	О
222	Characterizing Scalar Metasurfaces Using Time-Domain Reflectometry. <b>2022</b> , 10, 9677-9685	
221	Saddle Point Optimization with Approximate Minimization Oracle and its Application to Robust Berthing Control.	О
220	Self-adaptive Equilibrium Optimizer for solving global, combinatorial, engineering, and Multi-Objective problems. <b>2022</b> , 195, 116552	6

219	Influence of probability distribution initialization methods on the performance of advanced arithmetic optimization algorithm with application to unrelated parallel machine scheduling problem.	0
218	Blackbox optimization for approximating high-fidelity heat transfer calculations in metal additive manufacturing. <b>2022</b> , 13, 100258	
217	A least square support vector machine approach based on bvRNA-GA for modeling photovoltaic systems. <b>2022</b> , 117, 108357	0
216	Bodies Uncovered: Learning to Manipulate Real Blankets Around People via Physics Simulations. <b>2022</b> , 7, 1984-1991	1
215	COBALT: COnstrained Bayesian optimizAtion of computationaLly expensive grey-box models exploiting derivaTive information. <b>2022</b> , 160, 107700	1
214	Hierarchical Optimization Algorithm and Applications of Spacecraft Trajectory Optimization. <b>2022</b> , 9, 81	2
213	Process Design and Analysis of a Novel Heat Recovery Energy System for an Aromatics Complex.	
212	Design of Static Output Feedback Controllers for an Active Suspension System. <b>2022</b> , 10, 26948-26964	1
211	Adaptive Evolution Strategies for Stochastic Zeroth-Order Optimization. 2022, 1-15	
210	An Approximated Gradient Sign Method Using Differential Evolution For Black-box Adversarial Attack. <b>2022</b> , 1-1	1
209	Noisy intermediate-scale quantum algorithms. <b>2022</b> , 94,	49
208	Procedural Generation of Game Levels and Maps: A Review. 2022,	
207	Heuristic EPnP-Based Pose Estimation for Underground Machine Tracking. 2022, 14, 385	
206	Boosting arithmetic optimization algorithm by sine cosine algorithm and levy flight distribution for solving engineering optimization problems. 1	2
205	A Neural Controller Model Considering the Vestibulospinal Tract in Human Postural Control <b>2022</b> , 16, 785099	
204	A simplified, efficient approach to hybrid wind and solar plant site optimization. <b>2022</b> , 7, 697-713	
203	Algebraic analysis and reconstruction of the Philips Pavilion⊠ hyperbolic paraboloid surfaces. 1478077122	10822
202	A multipopulation cooperative coevolutionary whale optimization algorithm with a two-stage orthogonal learning mechanism. <b>2022</b> , 108664	O

201	Generative Design of Structured Materials for Controlled Frequency Responses.	0
200	Optimization of Well Control during Gas Flooding Using the Deep-LSTM-Based Proxy Model: A Case Study in the Baoshaceng Reservoir, Tarim, China. <b>2022</b> , 15, 2398	0
199	DNA-structured mathematical model of cell-cycle progression in cyclic hypoxia 2022, 111104	О
198	Metamaterial Design with Nested-CNN and Prediction Improvement with Imputation. <b>2022</b> , 12, 3436	1
197	A novel arithmetic optimization algorithm based on chaotic maps for global optimization. 1	1
196	Optimal Modeling of an Elevator Chassis under Crash Scenario Based on Characterization and Validation of the Hyperelastic Material of Its Shock Absorber System. <b>2022</b> , 3, 227-243	
195	Improved Salp swarm algorithm for solving single-objective continuous optimization problems. 1	0
194	aphBO-2GP-3B: a budgeted asynchronous parallel multi-acquisition functions for constrained Bayesian optimization on high-performing computing architecture. <b>2022</b> , 65, 1	3
193	Adaptive Ranking-based Constraint Handling for Explicitly Constrained Black-Box Optimization <i>Evolutionary Computation</i> , <b>2022</b> , 1-32	4.3
192	A differential evolution algorithm with the guided movement for population and its application to interplanetary transfer trajectory design. <b>2022</b> , 110, 104727	1
191	An echo state network based adaptive dynamic programming approach for time-varying parameters optimization with application in algal bloom prediction. <b>2022</b> , 108796	
190	Contribution of Afferent Feedback to Adaptive Hindlimb Walking in Cats: A Neuromusculoskeletal Modeling Study <b>2022</b> , 10, 825149	1
189	A dynamic stochastic search algorithm for high-dimensional optimization problems and its application to feature selection. <b>2022</b> , 244, 108517	О
188	Warm-started semionline trajectory planner for ship∃ automatic docking (berthing). <b>2022</b> , 252, 111127	1
187	Two-stage differential evolution with novel parameter control. 2022, 596, 321-342	2
186	Energy management of stationary hybrid battery energy storage systems using the example of a real-world 5 MW hybrid battery storage project in Germany. <b>2022</b> , 51, 104257	1
185	KEesel Optimizasyon iিth Gauss Kaotik Haritas⊞le Kartal Optimizasyonu.	О
184	Active Update of Mutation Matrix Adaptation for Variable Metric Evolution Strategy. 2021,	

183 Independent Control and Path Planning of Microswimmers with a Uniform Magnetic Field. **2022**, 4, 2100183 2

182	Stochastic Schemata Exploiter-Based AutoML. <b>2021</b> ,	
181	Improvement of Trajectory Tracking by Robot Manipulator Based on a New Co-Operative Optimization Algorithm. <b>2021</b> , 9, 3231	5
180	Design of Static Output Feedback and Structured Controllers for Active Suspension with Quarter-Car Model. <b>2021</b> , 14, 8231	2
179	Generating Master Faces for Dictionary Attacks with a Network-Assisted Latent Space Evolution. <b>2021</b> ,	1
178	Digital Design of the Crystallization of an Active Pharmaceutical Ingredient Using a Population Balance Model with a Novel Size Dependent Growth Rate Expression. From Development of a Digital Twin to In Silico Optimization and Experimental Validation. <b>2022</b> , 22, 497-512	4
177	Towards a Principled Learning Rate Adaptation for Natural Evolution Strategies. 2022, 721-737	О
176	Chimp Optimization Algorithm to Optimize a Convolutional Neural Network for Recognizing Persian/Arabic Handwritten Words. <b>2022</b> , 2022, 1-12	
175	Adversarial robustness assessment: Why in evaluation both L0 and LDattacks are necessary <b>2022</b> , 17, e0265723	3
174	A virtual sensor for backlash in robotic manipulators. 1	
173	Multirobot Adaptive Task Allocation of Intelligent Warehouse Based on Evolutionary Strategy. <b>2022</b> , 2022, 1-9	
172	An enhanced hybrid arithmetic optimization algorithm for engineering applications. <b>2022</b> , 394, 114901	2
171	Data_Sheet_1.pdf. <b>2020</b> ,	
170	Table_1.DOCX. <b>2018</b> ,	
169	Presentation1.PDF. <b>2017</b> ,	
168	Data_Sheet_1.pdf. <b>2020</b> ,	
167	Data_Sheet_2.zip. <b>2020</b> ,	
166	Video_1.MOV. <b>2020</b> ,	

165	Video_2.MOV. <b>2020</b> ,	
164	Video_3.MOV. <b>2020</b> ,	
163	Video_4.MOV. <b>2020</b> ,	
162	Video_5.MOV. <b>2020</b> ,	
161	Video_6.MOV. <b>2020</b> ,	
160	Video_7.MOV. <b>2020</b> ,	
159	Enhanced COOT optimization algorithm for Dimensionality Reduction. 2022,	5
158	A Nature-Inspired Metaheuristic Optimization Algorithm Based on Crocodiles Hunting Search (CHS). <b>2022</b> , 13, 0-0	О
157	Wave Barriers for Mitigation of Underground Train Vibrations in the Layered Grounds Considering the Groundwater Table Effect.	
156	???????????. 2022,	
155	Monitoring and digital design of the cooling crystallization of a high-aspect ratio anticancer drug using a two-dimensional population balance model. <b>2022</b> , 117700	О
154	A Parameter Representing Missing Charge Should Be Considered when Calibrating Action Potential Models <b>2022</b> , 13, 879035	
153	Effects of wing-body interaction on Hawk-moth aerodynamics and energetics at various flight velocities.	О
152	Review on layout optimization strategies of offshore parks for wave energy converters. <b>2022</b> , 163, 112513	1
151	APPL: Adaptive Planner Parameter Learning. <b>2022</b> , 154, 104132	1
150	Nonlinear marine predator algorithm: A cost-effective optimizer for fair power allocation in NOMA-VLC-B5G networks. <b>2022</b> , 203, 117395	1
149	Vector based sentiment and emotion analysis from text: A survey. <b>2022</b> , 113, 104922	O
148	Improved whale optimization algorithm and its application in vehicle structural crashworthiness. 1-15	O

147	One decade of quantum optimal control in the chopped random basis.	3
146	Modified search and rescue optimization algorithm for identifying the optimal parameters of high efficiency triple-junction solar cell/module.	О
145	Optimizing the Neural Structure and Hyperparameters of Liquid State Machines Based on Evolutionary Membrane Algorithm. <b>2022</b> , 10, 1844	O
144	An innovative quadratic interpolation salp swarm-based local escape operator for large-scale global optimization problems and feature selection.	2
143	Alpine skiing optimization: A new bio-inspired optimization algorithm. <b>2022</b> , 170, 103158	11
142	Design of Virtual Reference Feedforward Controller for an Active Suspension System. <b>2022</b> , 10, 65671-65684	
141	Design of a Modal Controller With Simple Models for an Active Suspension System. <b>2022</b> , 10, 65585-65597	
140	When Cyber-Physical Systems Meet AI: A Benchmark, an Evaluation, and a Way Forward. 2022,	
139	Network Synthesis under Delay Constraints: The Power of Network Calculus Differentiability. 2022,	
138	Tree optimization algorithm (TOA): a novel metaheuristic approach for solving mathematical test functions and engineering problems.	О
137	Recent Advances in Harris Hawks Optimization: A Comparative Study and Applications. 2022, 11, 1919	7
136	Automatic binary and ternary change detection in SAR images based on evolutionary multiobjective optimization. <b>2022</b> , 109200	1
135	WCCI/GECCO 2020 Competition on Evolutionary Computation in the Energy Domain: An overview from the winner perspective. <b>2022</b> , 125, 109162	О
134	Predicting the environmental economic dispatch problem for reducing waste nonrenewable materials via an innovative constraint multi-objective Chimp Optimization Algorithm. <b>2022</b> , 365, 132697	10
133	A proportional, integral and derivative differential evolution algorithm for global optimization. <b>2022</b> , 206, 117669	О
132	Optimization Algorithms Surpassing Metaphor. <b>2022</b> , 3-33	
131	A Micro-population Evolution Strategy for Loser-Out Tournament-Based Firework Algorithm. <b>2022</b> , 319-328	
130	Model Identification and Control of a Low-cost Mobile Robot with Omnidirectional Wheels using Differentiable Physics. <b>2022</b> ,	

129	Tuning particle accelerators with safety constraints using Bayesian optimization. 2022, 25,	О
128	Uncertainty and error in SARS-CoV-2 epidemiological parameters inferred from population-level epidemic models.	
127	Prairie Dog Optimization Algorithm.	21
126	Monotone improvement of information-geometric optimization algorithms with a surrogate function. <b>2022</b> ,	O
125	Guiding surrogate-assisted multi-objective optimisation with decision maker preferences. 2022,	
124	Integration of Heterogeneous Biological Data in Multiscale Mechanistic Model Calibration: Application to Lung Adenocarcinoma. <b>2022</b> , 70,	
123	Buoyancy energy driven archimedes optimization algorithm based on L $\Omega$ y flight and tangent flight. <b>2022</b> , 1-25	
122	Benchmarking ?MAg-ES and BP-?MAg-ES on the bbob-constrained testbed. <b>2022</b> ,	
121	An Improved Aquila Optimizer Based on Search Control Factor and Mutations. 2022, 10, 1451	1
120	Adaptive Function Value Warping for Surrogate Model Assisted Evolutionary Optimization. 2022, 76-89	2
119	Slime Mould-Seagull Optimizer. <b>2022</b> ,	О
118	Evaluating ASCE 41-17 performance-based provisions on optimally designed steel moment frames.	0
117	Benchmarking CMA-ES with margin on the bbob-mixint testbed. <b>2022</b> ,	
116	CMA-ES with margin. <b>2022</b> ,	Ο
115	China carbon dioxide emission forecast based on improved marine predator algorithm and multi-kernel support vector regression.	О
114	All-At-Once formulation integrating pseudo-spectral optimal control for launch vehicle design and uncertainty quantification. <b>2022</b> ,	
113	Environmental economic dispatch optimization using niching penalized chimp algorithm. 2022, 125259	0
112	Single candidate optimizer: a novel optimization algorithm.	2

111	A hybrid greedy political optimizer with fireworks algorithm for numerical and engineering optimization problems. <b>2022</b> , 12,	0
110	Covariance Matrix Adaptation Evolution Strategy for Improving Machine Learning Approaches in Streamflow Prediction. <b>2022</b> , 10, 2971	5
109	Modular Assessment of Rainfall <b>R</b> unoff Models Toolbox (MARRMoT) v2.1: an object-oriented implementation of 47 established hydrological models for improved speed and readability. <b>2022</b> , 15, 6359-6369	
108	Dynamic Weight Agnostic Neural Networks and Medical Microwave Radiometry (MWR) for Breast Cancer Diagnostics. <b>2022</b> , 12, 2037	O
107	Wave barriers for mitigation of underground train vibrations in the layered grounds considering the groundwater table effect. <b>2022</b> , 348, 128629	0
106	MFRFNN: Multi-Functional Recurrent Fuzzy Neural Network for Chaotic Time Series Prediction. <b>2022</b> , 507, 292-310	5
105	Collaborative granular sieving: A deterministic multievolutionary algorithm for multimodal optimization problems. <b>2022</b> , 613, 288-308	О
104	The effect of chaotic mapping on naked mole-rat algorithm for energy efficient smart city wireless sensor network. <b>2022</b> , 173, 108655	O
103	A practical regularity model based evolutionary algorithm for multiobjective optimization. <b>2022</b> , 129, 109614	О
102	Development and assessment of prognosis digital twin in a NAMAC system. <b>2022</b> , 179, 109439	2
101	Model error effects in supervised damage identification of structures with numerically trained classifiers. <b>2023</b> , 184, 109741	1
100	Marine predator inspired naked mole-rat algorithm for global optimization. <b>2023</b> , 212, 118822	o
99	An opposition-based butterfly optimization algorithm with adaptive elite mutation in solving complex high-dimensional optimization problems. <b>2023</b> , 204, 498-528	1
98	Comparing SSALEO as a Scalable Large Scale Global Optimization Algorithm to High-Performance Algorithms for Real-World Constrained Optimization Benchmark. <b>2022</b> , 10, 95658-95700	2
97	Evolutionary Approaches to Improving the Layouts of Instance-Spaces. <b>2022</b> , 207-219	О
96	Collective Learning of Low-Memory Matrix Adaptation for Large-Scale Black-Box Optimization. <b>2022</b> , 281-294	0
95	A New Game Theoretic Based Random Forest for Binary Classification. 2022, 123-132	0
94	A Modified Equilibrium Optimizer Using Opposition-Based Learning and Teaching-Learning Strategy. <b>2022</b> , 10, 101408-101433	O

93	Progress Rate Analysis of Evolution Strategies on the Rastrigin Function: First Results. <b>2022</b> , 499-511	O
92	Surrogate-Assisted LSHADE Algorithm Utilizing Recursive Least Squares Filter. <b>2022</b> , 146-159	О
91	Measuring the Effects of Increasing Dimensionality on Fitness-Based Selection and Failed Exploration. <b>2022</b> ,	O
90	Fast Moving Natural Evolution Strategy for High-Dimensional Problems. <b>2022</b> ,	o
89	Evolutionary Scheduling of University Activities Based on Consumption Forecasts to Minimise Electricity Costs. <b>2022</b> ,	0
88	On Linking Level Segments. <b>2022</b> ,	О
87	A small fixed-wing UAV system identification using metaheuristics. <b>2022</b> , 9,	O
86	New methods for old problems: vacua of maximal D = 7 supergravities. <b>2022</b> , 2022,	О
85	Egret Swarm Optimization Algorithm: An Evolutionary Computation Approach for Model Free Optimization. <b>2022</b> , 7, 144	2
84	Inverse Design of Mechanical Metamaterials with Target Nonlinear Response via a Neural Accelerated Evolution Strategy. 2206238	О
83	A knowledge-driven monarch butterfly optimization algorithm with self-learning mechanism.	0
82	Development of a novel ReaxFF reactive potential for organochloride molecules.	О
81	A toolkit for multiscale optical system inverse-design. 2022,	O
80	Software and hardware co-design and implementation of intelligent optimization algorithms. <b>2022</b> , 129, 109639	O
79	Learning Adaptive Differential Evolution by Natural Evolution Strategies. 2022, 1-15	0
78	On-Line Black-Box Aerodynamic Performance Optimization for a Morphing Wing With Distributed Sensing and Control. <b>2022</b> , 1-15	О
77	Self-Adapting Particle Swarm Optimization for continuous black box optimization. 2022, 109722	0
76	Unknown area exploration for robots with energy constraints using a modified Butterfly Optimization Algorithm.	O

75	Accommodating unobservability to control flight attitude with optic flow. 2022, 610, 485-490	2
74	Global linear convergence of evolution strategies with recombination on scaling-invariant functions.	O
73	Sardine Optimization Algorithm with Agile Locality and Globality Strategies for Real Optimization Problems.	1
72	A bi-level transformation based evolutionary algorithm framework for equality constrained optimization.	O
71	Application-specific optimal model weighting of global climate models: A red tide example. <b>2022</b> , 28, 100334	0
70	Multi-objective Bayesian hull form optimisation for high-speed craft. <b>2022</b> , 266, 112688	1
69	A hybrid transient search naked mole-rat optimizer for image segmentation using multilevel thresholding. <b>2023</b> , 213, 119021	1
68	Explicitly Constrained Black-Box Optimization With Disconnected Feasible Domains Using Deep Generative Models. <b>2022</b> , 10, 117501-117514	O
67	Attention-Aware Learning for Hyperparameter Prediction in Image Processing Pipelines. 2022, 271-287	0
66	Robust optimal sensor configuration using the value of information.	O
65	Modeling and Design of Zero-Stiffness Elastomer Springs Using Machine Learning. 2200225	0
64	Binary African vultures optimization algorithm for various optimization problems.	Ο
63	Enhanced Ali Baba and the forty thieves algorithm for feature selection.	0
62	An Improved Nonlinear Tuna Swarm Optimization Algorithm Based on Circle Chaos Map and Levy Flight Operator. <b>2022</b> , 11, 3678	1
61	A novel chaotic runge kutta optimization algorithm for solving constrained engineering problems.	0
60	Parameter evaluation of a nonlinear Muskingum model using a constrained self-adaptive differential evolution algorithm.	O
59	Process modelling, optimisation and analysis of heat recovery energy system for petrochemical industry. <b>2022</b> , 135133	0
58	Uncertainty and error in SARS-CoV-2 epidemiological parameters inferred from population-level epidemic models. <b>2022</b> , 111337	Ο

57	On Improving Adaptive Problem Decomposition Using Differential Evolution for Large-Scale Optimization Problems. <b>2022</b> , 10, 4297	1
56	General-Purpose Algorithm for Two-Material Minimum Feature Size Enforcement of Freeform Nanophotonic Devices.	О
55	Evolving chimp optimization algorithm by weighted opposition-based technique and greedy search for multimodal engineering problems. <b>2023</b> , 132, 109869	1
54	An application of teachinglearning-based optimization for solving the optimal power flow problem with stochastic wind and solar power generators. <b>2023</b> , 10, 100187	1
53	A hybrid algorithm based on grey wolf optimizer and differential evolution for UAV path planning. <b>2023</b> , 215, 119327	1
52	Robot Control based on World Models and Predictive Learning. <b>2022</b> , 40, 790-795	O
51	Effects of Increased Arm Muscle Tone on Postural Recovery from External Forces: A simulation study. <b>2022</b> ,	О
50	A survey on multi-objective hyperparameter optimization algorithms for machine learning.	2
49	Training neural networks using Metropolis Monte Carlo and an adaptive variant. 2022, 3, 045026	О
48	Greedy opposition-based learning for chimp optimization algorithm.	1
47	Towards 2D/3D Registration of the Preoperative MRI to Intraoperative Fluoroscopic Images for Visualisation of Bone Defects. 1-10	О
46	Analysis of Surrogate-Assisted Information-Geometric Optimization Algorithms.	О
45	A Meta-Heuristic Algorithm Based on the Happiness Model. <b>2023</b> , 109-126	О
44	GradFreeBits: Gradient-Free Bit Allocation for Mixed-Precision Neural Networks. <b>2022</b> , 22, 9772	О
43	Like-attracts-like optimizer-based video robotics clustering control design for power device monitoring and inspection. 10,	0
42	Continuous streamflow prediction in ungauged basins: long short-term memory neural networks clearly outperform traditional hydrological models. <b>2023</b> , 27, 139-157	O
41	A self-adaptive quantum equilibrium optimizer with artificial bee colony for feature selection. <b>2023</b> , 153, 106520	О
40	DTCSMO: An efficient hybrid starling murmuration optimizer for engineering applications. <b>2023</b> , 405, 115878	2

39	Fireworks algorithm based on search space partition. <b>2022</b> , 37, 10783-10812	O
38	A Covariance Matrix Adaptation Evolution Strategy-based Manta Ray Foraging optimization. <b>2022</b> ,	O
37	An innovative time-varying particle swarm-based Salp algorithm for intrusion detection system and large-scale global optimization problems.	1
36	Learning Variable-Rate Codes for CSI Feedback. <b>2022</b> ,	O
35	Side-Scrolling Platform Game Levels Reachability Repair Method and Its Applications to Super Mario Bros. <b>2022</b> ,	O
34	Parameter Optimisation-Based Hybrid Reference Evapotranspiration Prediction Models: A Systematic Review of Current Implementations and Future Research Directions. <b>2023</b> , 14, 77	O
33	Improvement of sep-CMA-ES for Optimization of High-Dimensional Functions with Low Effective Dimensionality. <b>2022</b> ,	0
32	Adversarial robustness in discontinuous spaces via alternating sampling & mp; descent. 2023,	O
31	BEESO: Multi-strategy Boosted Snake-Inspired Optimizer for Engineering Applications.	0
30	Knowledge Transfer Based on Particle Filters for Multi-Objective Optimization. 2023, 28, 14	O
29	Design of Buoyant Architected Materials to Enable a New Aerial Platform Operating Near the Surface of Venus. <b>2023</b> ,	0
28	Shapley Additive Explanations for Knowledge Discovery via Surrogate Models. 2023,	O
27	An inverse kinematics framework of mobile manipulator based on unique domain constraint. <b>2023</b> , 183, 105273	O
26	An intelligent protection framework for intrusion detection in cloud environment based on covariance matrix self-adaptation evolution strategy and multi-criteria decision-making. <b>2023</b> , 1-31	O
25	An exhaustive review of the metaheuristic algorithms for search and optimization: taxonomy, applications, and open challenges.	O
24	A synthetic machine learning framework for complex crystallization processes: The case study of the second-order asymmetric transformation of enantiomers. <b>2023</b> , 465, 142800	O
23	An enhanced slime mould algorithm based on adaptive grouping technique for global optimization. <b>2023</b> , 222, 119877	О
22	Learning unified mutation operator for differential evolution by natural evolution strategies. <b>2023</b> , 632, 594-616	O

21	SaCHBA_PDN: Modified honey badger algorithm with multi-strategy for UAV path planning. <b>2023</b> , 223, 119941	O
20	Ten strategies towards successful calibration of environmental models. <b>2023</b> , 620, 129414	O
19	CMA-ES with exponential based multiplicative covariance matrix adaptation for global optimization. <b>2023</b> , 79, 101296	О
18	Impacts of vegetation restoration on water resources and carbon sequestration in the mountainous area of Haihe River basin, China. <b>2023</b> , 869, 161724	O
17	Controlling Sequential Hybrid Evolutionary Algorithm by Q-Learning [Research Frontier] [Research Frontier]. <b>2023</b> , 18, 84-103	O
16	Macroeconomic Fluctuations in the United States: The Role of Monetary and Fiscal Policy Shocks.	O
15	Brain-inspired STA for parameter estimation of fractional-order memristor-based chaotic systems.	O
14	Enhancing Mean-Variance Mapping Optimization Using Opposite Gradient Method and Interior Point Method for Real Parameter Optimization Problems. <b>2023</b> , 11, 465	O
13	An improved ensemble particle swarm optimizer using niching behavior and covariance matrix adapted retreat phase. <b>2023</b> , 78, 101278	O
12	Unstructured-grid approach to develop high-fidelity groundwater model to understand groundwater flow and storage responses to excessive groundwater withdrawals in the Southern Hills aquifer system in southeastern Louisiana (USA). <b>2023</b> , 46, 101342	O
11	Coronavirus Mask Protection Algorithm: A New Bio-inspired Optimization Algorithm and Its Applications.	2
10	Research on target detection method based on attention mechanism and reinforcement learning. <b>2023</b> ,	O
9	A novel metaheuristic algorithm inspired by COVID-19 for real-parameter optimization.	0
8	Sparse Adversarial Attack via Bi-objective Optimization. <b>2023</b> , 118-133	O
7	Accelerating the Design of Self-Guided Microrobots in Time-Varying Magnetic Fields. <b>2023</b> , 3, 611-627	0
6	Output-only structural identification with random decrement technique. <b>2023</b> , 51, 55-66	O
5	Machine Learning Optimization of Majorana Hybrid Nanowires. 2023, 130,	O
4	Importance of modelling hERG binding in predicting drug-induced action potential prolongations for drug safety assessment. 14,	O

Snow ablation optimizer: A novel metaheuristic technique for numerical optimization and engineering design. 2023, 225, 120069

An asynchronous parallel high-throughput model calibration framework for crystal plasticity finite element constitutive models.

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