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A new Fruit Fly Optimization Algorithm: Taking the financial distress model as an example

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|------|---|-----|-----------|
| 1055 | Annual Electric Load Forecasting by a Least Squares Support Vector Machine with a Fruit Fly Optimization Algorithm. 2012 , 5, 4430-4445 | | 86 |
| 1054 | Prediction Research on the Failure of Steam Turbine Based on Fruit Fly Optimization Algorithm Support Vector Regression. 2012 , 614-615, 409-413 | | 2 |
| 1053 | Tuning of PID controller based on Fruit Fly Optimization Algorithm. 2012 , | | 35 |
| 1052 | A novel binary fruit fly optimization algorithm for solving the multidimensional knapsack problem. <i>Knowledge-Based Systems</i> , 2013 , 48, 17-23 | 7.3 | 148 |
| 1051 | Based on the FOA algorithm research of ocean-going vessels economy speed. 2013 , | | 2 |
| 1050 | Using modified fruit fly optimisation algorithm to perform the function test and case studies. 2013 , 25, 151-160 | | 65 |
| 1049 | Speaker Recognition based on a Novel Hybrid Algorithm. 2013 , 61, 220-226 | | 4 |
| 1048 | Fruit fly optimization algorithm based fractional order fuzzy-PID controller for electronic throttle. 2013 , 73, 611-619 | | 84 |
| 1047 | Analysis of service satisfaction in web auction logistics service using a combination of Fruit fly optimization algorithm and general regression neural network. 2013 , 22, 783-791 | | 109 |
| 1046 | Design and optimization of key control characteristics based on improved fruit fly optimization algorithm. 2013 , 42, 466-481 | | 18 |
| 1045 | A hybrid annual power load forecasting model based on generalized regression neural network with fruit fly optimization algorithm. <i>Knowledge-Based Systems</i> , 2013 , 37, 378-387 | 7.3 | 321 |
| 1044 | Multiple extreme learning machines for a two-class imbalance corporate life cycle prediction. <i>Knowledge-Based Systems</i> , 2013 , 39, 214-223 | 7.3 | 41 |
| 1043 | LGMS-FOA: An Improved Fruit Fly Optimization Algorithm for Solving Optimization Problems. 2013 , 2013, 1-9 | | 43 |
| 1042 | Application of Fruit Fly Optimization Algorithm-Least Square Support Vector Machine in Fault Diagnosis of Fans. 2013 , 860-863, 1510-1516 | | 4 |
| 1041 | Forecasting Residential Electricity Based on FOAGMNN. 2013 , 860-863, 2513-2517 | | 1 |
| 1040 | A microgrid energy management system with demand response. 2014 , | | 2 |
| 1039 | . 2014 , | | |

| | | |
|------|---|----|
| 1038 | Guided convergence for training feed-forward neural network using novel gravitational search optimization. 2014, | 2 |
| 1037 | Chaotic Fruit Fly Optimization Algorithm. 2014, 74-85 | 7 |
| 1036 | Maximum Likelihood Method for Parameter Estimation of Weibull Distribution Model Based on Fruit Fly Optimization Algorithm. 2014, 602-605, 3508-3511 | 2 |
| 1035 | FOA Based PID Controller for Human Balance Keeping. 2014, 494-495, 1072-1075 | 5 |
| 1034 | A Kind of Diminishing Step Fruit Fly Optimization Algorithm. 2014, 487, 687-691 | 3 |
| 1033 | Study on Path Planning Method for Mobile Robot Based on Fruit Fly Optimization Algorithm. 2014, 536-537, 970-973 | 5 |
| 1032 | Mixed modified fruit fly optimization algorithm with general regression neural network to build oil and gold prices forecasting model. 2014, 43, 1053-1063 | 18 |
| 1031 | A Hybrid Intelligent Algorithm for Optimal Birandom Portfolio Selection Problems. 2014, 2014, 1-6 | |
| 1030 | Fruit fly optimization based least square support vector regression for blind image restoration. 2014, | |
| 1029 | Vinyl Acetate Polymerization Rate Prediction Based on FOA GNN. 2014, | 1 |
| 1028 | Mixed Fruit Fly Optimization Algorithm Based on Lozi's Chaotic Mapping. 2014, | 2 |
| 1027 | A novel numerical optimization algorithm inspired from cell communication mechanism. 2014, | |
| 1026 | An improved fruit fly optimization algorithm inspired from cell communication mechanism for pre-oxidation process of carbon fiber production. 2014, | 1 |
| 1025 | An enhanced non-dominated sorting based fruit fly optimization algorithm for solving environmental economic dispatch problem. 2014, | 3 |
| 1024 | Fruit Fly Optimization Algorithm. 2014, 167-170 | 21 |
| 1023 | A discrete fruit fly optimization algorithm for flow shop scheduling problem with intermingling equal sublots. 2014, | 3 |
| 1022 | Research on Parameter Optimization Method of v-SVRM Forecasting Model for Crane Load Spectrum. 2014, 1078, 191-196 | 1 |
| 1021 | A Simple Human Learning Optimization Algorithm. 2014, 56-65 | 19 |

| | | | |
|------|--|-----|------|
| 1020 | Introduction to Computational Intelligence. 2014 , 3-17 | | 4 |
| 1019 | A Mutual Fund Investment Method Using Fruit Fly Optimization Algorithm and Neural Network. 2014 , 571-572, 318-325 | | 3 |
| 1018 | Comment and improvement on A new Fruit Fly Optimization Algorithm: Taking the financial distress model as an example <i>Knowledge-Based Systems</i> , 2014 , 59, 159-160 | 7-3 | 34 |
| 1017 | Improving observability using optimal placement of phasor measurement units. 2014 , 56, 55-63 | | 32 |
| 1016 | A novel fruit fly optimization algorithm for the semiconductor final testing scheduling problem. <i>Knowledge-Based Systems</i> , 2014 , 57, 95-103 | 7-3 | 105 |
| 1015 | On a novel multi-swarm fruit fly optimization algorithm and its application. 2014 , 233, 260-271 | | 99 |
| 1014 | Grey Wolf Optimizer. 2014 , 69, 46-61 | | 6256 |
| 1013 | An improvement of fruit fly optimization algorithm for solving traveling salesman problems. 2014 , | | 1 |
| 1012 | Solving the steelmaking casting problem using an effective fruit fly optimisation algorithm. <i>Knowledge-Based Systems</i> , 2014 , 72, 28-36 | 7-3 | 71 |
| 1011 | An improved fruit fly optimization algorithm for continuous function optimization problems. <i>Knowledge-Based Systems</i> , 2014 , 62, 69-83 | 7-3 | 156 |
| 1010 | Crisscross optimization algorithm and its application. <i>Knowledge-Based Systems</i> , 2014 , 67, 218-229 | 7-3 | 63 |
| 1009 | Drosophila Food-Search Optimization. 2014 , 231, 566-580 | | 27 |
| 1008 | Pressure Model of Control Valve Based on LS-SVM with the Fruit Fly Algorithm. 2014 , 7, 363-375 | | 4 |
| 1007 | Three-Dimensional Path Planning of Robots in Virtual Situations Based on an Improved Fruit Fly Optimization Algorithm. 2014 , 6, 314797 | | 6 |
| 1006 | A rapid particle swarm optimization algorithm with convergence analysis. 2014 , 47, 8689-8694 | | |
| 1005 | Introduction. 2015 , 1-58 | | |
| 1004 | A new specular reflection optimization algorithm. 2015 , 7, 168781401561047 | | 6 |
| 1003 | Improved fruit fly optimization algorithm optimized wavelet neural network for statistical data modeling for industrial polypropylene melt index prediction. 2015 , 29, 506-513 | | 16 |

| | | |
|------|--|-----|
| 1002 | Research on Multi-Distribution Center Location Based on Fruit Fly Immune Algorithm. 2015 , 743, 338-342 | 1 |
| 1001 | Construction of Pancreatic Cancer Classifier Based on SVM Optimized by Improved FOA. 2015 , 2015, 781023 | 8 |
| 1000 | Short-Term Load Forecasting Based on Wavelet Transform and Least Squares Support Vector Machine Optimized by Fruit Fly Optimization Algorithm. 2015 , 2015, 1-9 | 11 |
| 999 | A Novel Discrete Fruit Fly Optimization Algorithm for Intelligent Parallel Test sheets Generation. 2015 , 22, 01040 | 1 |
| 998 | Modified Fruit Fly Optimization Algorithm for Analysis of Large Antenna Array. 2015 , 2015, 1-11 | 8 |
| 997 | An Improved Fruit Fly Optimization Algorithm Inspired from Cell Communication Mechanism. 2015 , 2015, 1-15 | 10 |
| 996 | Urban Saturated Power Load Analysis Based on a Novel Combined Forecasting Model. 2015 , 6, 69-88 | 10 |
| 995 | A critical analysis of the harmony search algorithmHow not to solve sudoku. 2015 , 2, 97-105 | 52 |
| 994 | Parameter identification and sensitivity analysis of an improved LuGre friction model for magnetorheological elastomer base isolator. 2015 , 50, 2691-2707 | 31 |
| 993 | An adaptive simplified human learning optimization algorithm. 2015 , 320, 126-139 | 31 |
| 992 | . 2015 , | 8 |
| 991 | A Survey on Fruit Fly Optimization Algorithm. 2015 , | 8 |
| 990 | A new type bionic global optimization: Construction and application of modified fruit fly optimization algorithm. 2015 , 229, 1614-1621 | 1 |
| 989 | Detecting Fault Injection Attacks on Embedded Real-Time Applications: A System-Level Perspective. 2015 , | 4 |
| 988 | Adopting search-based algorithms for pairwise testing. 2015 , | |
| 987 | Melt index prediction by least squares support vector machines with an adaptive mutation fruit fly optimization algorithm. 2015 , 141, 79-87 | 50 |
| 986 | Evolutionary population dynamics and grey wolf optimizer. 2015 , 26, 1257-1263 | 190 |
| 985 | MetaheuristicsThe metaphor exposed. 2015 , 22, 3-18 | 471 |

| | | | |
|-----|---|-----|------|
| 984 | An improved fruit fly optimization algorithm and its application to joint replenishment problems. 2015 , 42, 4310-4323 | | 100 |
| 983 | An effective hybrid harmony search-based algorithm for solving multidimensional knapsack problems. 2015 , 29, 288-297 | | 43 |
| 982 | Fruit fly optimization algorithm based on differential evolution and its application on gasification process operation optimization. <i>Knowledge-Based Systems</i> , 2015 , 88, 253-263 | 7.3 | 64 |
| 981 | Parameter identification of BIPT system using chaotic-enhanced fruit fly optimization algorithm. 2015 , 268, 1267-1281 | | 28 |
| 980 | Fruit Fly Optimization Algorithm Based SVM Classifier for Efficient Detection of Parkinson Disease. 2015 , 98-106 | | 1 |
| 979 | Moth-flame optimization algorithm: A novel nature-inspired heuristic paradigm. <i>Knowledge-Based Systems</i> , 2015 , 89, 228-249 | 7.3 | 1923 |
| 978 | Optimizing a location allocation-inventory problem in a two-echelon supply chain network: A modified fruit fly optimization algorithm. 2015 , 87, 543-560 | | 59 |
| 977 | A Binary Fruit Fly Optimization Algorithm to Solve the Set Covering Problem. 2015 , 411-420 | | 7 |
| 976 | A Comparison of Three Recent Nature-Inspired Metaheuristics for the Set Covering Problem. 2015 , 431-443 | | 5 |
| 975 | Optimal Dispatch Strategy of a Virtual Power Plant Containing Battery Switch Stations in a Unified Electricity Market. 2015 , 8, 2268-2289 | | 43 |
| 974 | Self-Tuning p-Spectral Clustering Based on Shared Nearest Neighbors. 2015 , 7, 622-632 | | 28 |
| 973 | General Relativity Search Algorithm: A Global Optimization Approach. 2015 , 14, 1550017 | | 13 |
| 972 | Comparative performance analysis of fruit fly optimisation algorithm for multi-area multi-source automatic generation control under deregulated environment. 2015 , 9, 1845-1855 | | 68 |
| 971 | A knowledge-based fruit fly optimization algorithm for multi-skill resource-constrained project scheduling problem. 2015 , | | 2 |
| 970 | A cloud model based fruit fly optimization algorithm. <i>Knowledge-Based Systems</i> , 2015 , 89, 603-617 | 7.3 | 59 |
| 969 | Chaotic fruit fly optimization algorithm. <i>Knowledge-Based Systems</i> , 2015 , 89, 446-458 | 7.3 | 119 |
| 968 | A new modification approach on bat algorithm for solving optimization problems. 2015 , 28, 259-275 | | 160 |
| 967 | Group search optimizer with intraspecific competition and Levy walk. <i>Knowledge-Based Systems</i> , 2015 , 73, 44-51 | 7.3 | 9 |

| | | |
|-----|---|-----|
| 966 | Swarm intelligence applied in green logistics: A literature review. 2015 , 37, 154-169 | 92 |
| 965 | Inverse estimation of the particle size distribution using the Fruit Fly Optimization Algorithm. 2015 , 88, 306-314 | 32 |
| 964 | Optimization about the layout of IMUs in large ship based on fruit fly optimization algorithm. 2015 , 126, 490-493 | 11 |
| 963 | Identification of Shearer Cutting Patterns Using Vibration Signals Based on a Least Squares Support Vector Machine with an Improved Fruit Fly Optimization Algorithm. 2016 , 16, | 24 |
| 962 | Acoustic-Based Cutting Pattern Recognition for Shearer through Fuzzy C-Means and a Hybrid Optimization Algorithm. 2016 , 6, 294 | 13 |
| 961 | A Hybrid Model Based on Ensemble Empirical Mode Decomposition and Fruit Fly Optimization Algorithm for Wind Speed Forecasting. 2016 , 2016, 1-14 | 8 |
| 960 | Modified Grey Wolf Optimizer for Global Engineering Optimization. 2016 , 2016, 1-16 | 126 |
| 959 | Using GM (1,1) Optimized by MFO with Rolling Mechanism to Forecast the Electricity Consumption of Inner Mongolia. 2016 , 6, 20 | 46 |
| 958 | Adaptive Wavelet Threshold Denoising Method for Machinery Sound Based on Improved Fruit Fly Optimization Algorithm. 2016 , 6, 199 | 26 |
| 957 | A Fruit Fly-Optimized Kalman Filter Algorithm for Pushing Distance Estimation of a Hydraulic Powered Roof Support through Tuning Covariance. 2016 , 6, 299 | 3 |
| 956 | Effects of Process Parameters on the Extraction of Quercetin and Rutin from the Stalks of <i>Euonymus Alatus</i> (Thumb.) Sieb and Predictive Model Based on Least Squares Support Vector Machine Optimized by an Improved Fruit Fly Optimization Algorithm. 2016 , 6, 340 | 10 |
| 955 | Analysis and Modeling for Short- to Medium-Term Load Forecasting Using a Hybrid Manifold Learning Principal Component Model and Comparison with Classical Statistical Models (SARIMAX, Exponential Smoothing) and Artificial Intelligence Models (ANN, SVM): The Case of Greek Electricity Market. 2016 , 9, 425 | 18 |
| 954 | Cutting State Diagnosis for Shearer through the Vibration of Rocker Transmission Part with an Improved Probabilistic Neural Network. 2016 , 16, | 14 |
| 953 | . 2016 , | |
| 952 | Prognostic for hydraulic pump based upon DCT-composite spectrum and the modified echo state network. 2016 , 5, 1293 | 11 |
| 951 | A Discrete Fruit Fly Optimization Algorithm for the Traveling Salesman Problem. 2016 , 11, e0165804 | 12 |
| 950 | A Multi-Verse Optimizer with Levy Flights for Numerical Optimization and Its Application in Test Scheduling for Network-on-Chip. 2016 , 11, e0167341 | 29 |
| 949 | An innovative natural-derived meta-heuristic optimization method. 2016 , 1 | 2 |

| | | |
|-----|---|-------|
| 948 | . 2016, | 0 |
| 947 | Fruit Fly Algorithm Based on Extremal Optimization. 2016, | 1 |
| 946 | Study on FOA_BP remote sepsis diagnosis based on wireless sensor network. 2016, 31, 2737-2743 | 1 |
| 945 | Multi-objective fruit fly optimization algorithm for test point selection. 2016, | |
| 944 | Tournament selection based fruit fly optimization and its application in template matching. 2016, | |
| 943 | Optimal design of feeding system in steel casting by constrained optimization algorithms based on InteCAST. 2016, 13, 375-382 | 4 |
| 942 | Non-swarm intelligence search algorithm based on the foraging behaviors of fruit flies. 2016, | 1 |
| 941 | Moisture retrieval based on an optimized Least Squares Support Vector Machine Model. 2016, | |
| 940 | Fault diagnosis method based on minimum entropy deconvolution and fruit fly optimization algorithm. 2016, | |
| 939 | Solving the blocking flow shop scheduling problem with makespan using a modified fruit fly optimisation algorithm. 2016, 54, 6782-6797 | 46 |
| 938 | A Modified Flower Pollination Algorithm for Global Optimization. 2016, 57, 192-203 | 158 |
| 937 | An Investigation of the Use of Innovative Biology-Based Computational Intelligence in Ubiquitous Robotics Systems: Data Mining Perspective. 2016, 139-172 | |
| 936 | A new improved fruit fly optimization algorithm for traveling salesman problem. 2016, | 2 |
| 935 | An optimized grey model for annual power load forecasting. 2016, 107, 272-286 | 121 |
| 934 | Bio inspired computing [A review of algorithms and scope of applications. 2016, 59, 20-32 | 275 |
| 933 | Linear Active Disturbance Rejection Control Approach for Load Frequency Control Problem Using Diminishing Step Fruit Fly Algorithm. 2016, 9-18 | |
| 932 | Support vector regression with fruit fly optimization algorithm for seasonal electricity consumption forecasting. 2016, 115, 734-745 | 93 |
| 931 | Seasonal SVR with FOA algorithm for single-step and multi-step ahead forecasting in monthly inbound tourist flow. <i>Knowledge-Based Systems</i> , 2016, 110, 157-166 | 73 36 |

| | | |
|-----|--|--------|
| 930 | A two-stage adaptive fruit fly optimization algorithm for unrelated parallel machine scheduling problem with additional resource constraints. 2016 , 65, 28-39 | 42 |
| 929 | Swarm Intelligence. 2016 , 237-263 | 1 |
| 928 | An intelligent algorithm of Support Vector Regression parameters optimization in soft measurements. 2016 , | |
| 927 | Self-adaptive step fruit fly algorithm optimized support vector regression model for dynamic response prediction of magnetorheological elastomer base isolator. 2016 , 211, 41-52 | 25 |
| 926 | PID control parameters optimize based on an immune fruit fly optimization algorithm. 2016 , | |
| 925 | Building dynamic evacuation based on a fly optimization. 2016 , | |
| 924 | An ensemble fruit fly optimization algorithm for solving range image registration to improve quality inspection of free-form surface parts. 2016 , 367-368, 953-974 | 18 |
| 923 | Several key techniques of pre-stack gas detection for tight sandstone reservoir in SLG area. 2016 , | |
| 922 | A LS-SVM-based classifier with Fruit Fly Optimization Algorithm for polarimetric SAR images. 2016 , | 3 |
| 921 | A Pareto based fruit fly optimization algorithm for task scheduling and resource allocation in cloud computing environment. 2016 , | 12 |
| 920 | Traffic detectors deployment modeling and optimization under urban road network. 2016 , | 1 |
| 919 | A robust fuzzy tree method with outlier detection for combustion models and optimization. 2016 , 158, 130-137 | 7 |
| 918 | Normal histogram-based fruit fly optimization algorithm for range image registration. 2016 , | 1 |
| 917 | An Fruit Fly Optimization Algorithm with Dimension by Dimension Improvement. 2016 , 679-690 | 1 |
| 916 | A Novel Multi-class Classification Approach Based on Fruit Fly Optimization Algorithm and Relevance Vector Machine. 2016 , | |
| 915 | AFOA: An Adaptive Fruit Fly Optimization Algorithm with Global Optimizing Ability. 2016 , 25, 1650032 | 6 |
| 914 | A novel multi-scale cooperative mutation Fruit Fly Optimization Algorithm. <i>Knowledge-Based Systems</i> , 2016 , 114, 24-35 | 7-3 44 |
| 913 | A novel 3D fruit fly optimization algorithm and its applications in economics. 2016 , 27, 1391-1413 | 13 |

| | | | |
|-----|--|-----|------|
| 912 | A knowledge-guided fruit fly optimization algorithm for dual resource constrained flexible job-shop scheduling problem. 2016 , 54, 5554-5566 | | 59 |
| 911 | Identification of dynamic protein complexes based on fruit fly optimization algorithm. <i>Knowledge-Based Systems</i> , 2016 , 105, 270-277 | 7.3 | 45 |
| 910 | Dynamic multi-objective fuzzy portfolio model that considers corporate social responsibility and background risk. 2016 , 19, 413-432 | | 3 |
| 909 | Constructing ZSCORE-based financial crisis warning models using fruit fly optimization algorithm and general regression neural network. 2016 , 45, 650-665 | | 6 |
| 908 | An improved fruit fly optimization algorithm to solve the homogeneous fuzzy series-parallel redundancy allocation problem under discount strategies. 2016 , 20, 2281-2307 | | 37 |
| 907 | Study on the performance evaluation of online teaching using the quantile regression analysis and artificial neural network. 2016 , 72, 789-803 | | 7 |
| 906 | Multiple learning particle swarm optimization with space transformation perturbation and its application in ethylene cracking furnace optimization. <i>Knowledge-Based Systems</i> , 2016 , 96, 156-170 | 7.3 | 31 |
| 905 | Study on medical image enhancement based on IFOA improved grayscale image adaptive enhancement. 2016 , 75, 14367-14379 | | 4 |
| 904 | Evolving support vector machines using fruit fly optimization for medical data classification. <i>Knowledge-Based Systems</i> , 2016 , 96, 61-75 | 7.3 | 382 |
| 903 | An improved fruit fly optimization algorithm based on selecting evolutionary direction intelligently. 2016 , 9, 80-90 | | 14 |
| 902 | Twin support vector machines based on fruit fly optimization algorithm. 2016 , 7, 193-203 | | 39 |
| 901 | The Whale Optimization Algorithm. 2016 , 95, 51-67 | | 4197 |
| 900 | An Adaptive Optimization Algorithm Based on FOA. 2016 , 95-103 | | 1 |
| 899 | An effective and efficient fruit fly optimization algorithm with level probability policy and its applications. <i>Knowledge-Based Systems</i> , 2016 , 97, 158-174 | 7.3 | 58 |
| 898 | Ship motion prediction using dynamic seasonal RvSVR with phase space reconstruction and the chaos adaptive efficient FOA. 2016 , 174, 661-680 | | 37 |
| 897 | Design and optimization of a new composite bumper beam in high-speed frontal crashes. 2016 , 53, 115-122 | | 23 |
| 896 | Community Detection Utilizing a Novel Multi-swarm Fruit Fly Optimization Algorithm with Hill-Climbing Strategy. 2016 , 41, 807-828 | | 16 |
| 895 | Metaheuristic algorithms and probabilistic behaviour: a comprehensive analysis of Ant Colony Optimization and its variants. 2016 , 45, 97-130 | | 29 |

| | | |
|-----|--|-----|
| 894 | Oscillations extracting for the management of passenger flows in the airport of Hong Kong. 2016 , 12, 65-79 | 4 |
| 893 | Coordination of PSSs and SVC Damping Controller to Improve Probabilistic Small-Signal Stability of Power System With Wind Farm Integration. 2016 , 31, 2371-2382 | 75 |
| 892 | A Hybrid Fruit Fly Optimization Algorithm for the Realistic Hybrid Flowshop Rescheduling Problem in Steelmaking Systems. 2016 , 13, 932-949 | 65 |
| 891 | Gravitational Search, Monkey, and Krill Herd Swarm Algorithms for Phase Stability, Phase Equilibrium, and Chemical Equilibrium Problems. 2016 , 203, 389-406 | 4 |
| 890 | Research on suspension system with embedded-permanent-magnet magnetorheological damper based on V-model. 2016 , 230, 1602-1614 | 2 |
| 889 | Solution of non-convex economic load dispatch problem using Grey Wolf Optimizer. 2016 , 27, 1301-1316 | 114 |
| 888 | Multi-objective optimization of stand-alone hybrid PV-wind-diesel-battery system using improved fruit fly optimization algorithm. 2016 , 20, 2841-2853 | 40 |
| 887 | Study on cluster analysis characteristics and classification capabilities in a case study of satisfaction regarding hotels and bed & breakfasts of Chinese tourists in Taiwan. 2017 , 23, 103-108 | 2 |
| 886 | Solution of non-convex economic load dispatch problem for small-scale power systems using ant lion optimizer. 2017 , 28, 2181-2192 | 68 |
| 885 | Bimodal fruit fly optimization algorithm based on cloud model learning. 2017 , 21, 1877-1893 | 17 |
| 884 | A Data Mining Approach to the Analysis of a Catering Lean Service Project. 2017 , 23, 243-250 | 3 |
| 883 | A diverse human learning optimization algorithm. 2017 , 67, 283-323 | 14 |
| 882 | Design and development of a unified framework towards swarm intelligence. 2017 , 47, 253-277 | 7 |
| 881 | A novel fruit fly framework for multi-objective shape design of tubular linear synchronous motor. 2017 , 73, 1235-1256 | 52 |
| 880 | Moving distance measurement for hydraulic support based on fruit fly optimization algorithm. 2017 , 56, 013111 | 5 |
| 879 | Comparable investigation of backtracking search algorithm in automatic generation control for two area reheat interconnected thermal power system. 2017 , 55, 197-210 | 28 |
| 878 | Effective metaheuristics for scheduling a hybrid flowshop with sequence-dependent setup times. 2017 , 303, 89-112 | 73 |
| 877 | Optimization of Fractional Order PID Controller Using Grey Wolf Optimizer. 2017 , 28, 314-322 | 44 |

| | | |
|-----|--|--------|
| 876 | An improved teaching-learning-based optimization algorithm and its application to a combinatorial optimization problem in foundry industry. 2017 , 57, 504-516 | 40 |
| 875 | Grey wolf optimization evolving kernel extreme learning machine: Application to bankruptcy prediction. 2017 , 63, 54-68 | 121 |
| 874 | An adaptive elitism-based immigration for grey wolf optimization algorithm. 2017 , | 4 |
| 873 | Coverage enhancing of 3D underwater sensor networks based on improved fruit fly optimization algorithm. 2017 , 21, 6019-6029 | 7 |
| 872 | Dynamic particle swarm optimizer with escaping prey for solving constrained non-convex and piecewise optimization problems. 2017 , 86, 208-223 | 10 |
| 871 | Image 1D OMP sparse decomposition with modified fruit-fly optimization algorithm. 2017 , 20, 3015-3022 | 5 |
| 870 | Stud Multi-Verse Algorithm. 2017 , | 4 |
| 869 | A Nonmodel Dual-Tree Wavelet Thresholding for Image Denoising Through Noise Variance Optimization Based on Improved Chaotic Drosophila Algorithm. 2017 , 31, 1754015 | 9 |
| 868 | Energy-aware hybrid fruitfly optimization for load balancing in cloud environments for EHR applications. 2017 , 8, 42-50 | 27 |
| 867 | The error prediction of inventory reconciliation during storage and transportation process based on PLS and MFOA-LSSVM. 2017 , 7, 895-904 | |
| 866 | Efficient truss optimization using the contrast-based fruit fly optimization algorithm. 2017 , 182, 137-148 | 44 |
| 865 | A novel weighted update position mechanism to improve the performance of sine cosine algorithm. 2017 , | 16 |
| 864 | Solving 2D strip packing problem using fruit fly optimization algorithm. 2017 , 111, 52-57 | 4 |
| 863 | Discussion of Modified Firefly Algorithm for Solving Multireservoir Operation in Continuous and Discrete Domains by Irene Garousi-Nejad, Omid Bozorg-Haddad, and Hugo A. Loziga. 2017 , 143, 07017004 | 6 |
| 862 | A bilevel improved fruit fly optimization algorithm for the nonlinear bilevel programming problem. <i>Knowledge-Based Systems</i> , 2017 , 138, 113-123 | 7-3 22 |
| 861 | Two-step based feature selection method for filtering redundant information. 2017 , 33, 2059-2073 | 3 |
| 860 | Application of a novel hybrid method for spatiotemporal data imputation: A case study of the Minqin County groundwater level. 2017 , 553, 384-397 | 12 |
| 859 | A hybrid fruit fly algorithm for solving flexible job-shop scheduling to reduce manufacturing carbon footprint. 2017 , 168, 668-678 | 38 |

| | | | |
|-----|--|-----|------|
| 858 | Cost Prediction Research for Commissioning Projects of Thermal Power Plants Based on a Hybrid Algorithm. 2017 , | | |
| 857 | A discrete fruit fly optimization algorithm for the capacitated vehicle routing problem. 2017 , | | |
| 856 | An application of fruit fly optimization algorithm for traveling salesman problem. 2017 , 111, 58-63 | | 17 |
| 855 | Research on Warehouse Scheduling Optimization Problem for Broiler Breeding. 2017 , 238-246 | | |
| 854 | Salp Swarm Algorithm: A bio-inspired optimizer for engineering design problems. 2017 , 114, 163-191 | | 1826 |
| 853 | Detecting and predicting the topic change of Knowledge-based Systems: A topic-based bibliometric analysis from 1991 to 2016. <i>Knowledge-Based Systems</i> , 2017 , 133, 255-268 | 7-3 | 51 |
| 852 | Stochastic Fractal Based Multiobjective Fruit Fly Optimization. 2017 , 27, 417-433 | | 7 |
| 851 | Research on magnetorheological damper suspension with permanent magnet and magnetic valve based on developed FOA-optimal control algorithm. 2017 , 31, 3109-3119 | | 6 |
| 850 | Prediction of mutual fund net value using Backpropagation Neural Network. 2017 , | | 1 |
| 849 | A fruit fly optimization algorithm with a traction mechanism and its applications. 2017 , 13, 155014771773983 | | 6 |
| 848 | Modified fruit fly optimization algorithm of logistics storage selection. 2017 , 93, 547-558 | | 4 |
| 847 | Semi-active control of magnetorheological elastomer base isolation system utilising learning-based inverse model. 2017 , 406, 346-362 | | 51 |
| 846 | Fruit fly optimization algorithm for passive waveguide devices. 2017 , | | 1 |
| 845 | A new adaptive network-based fuzzy inference system with adaptive adjustment rules for stock market volatility forecasting. 2017 , 127, 32-36 | | 13 |
| 844 | System-Level Design to Detect Fault Injection Attacks on Embedded Real-Time Applications. 2017 , 13, 1-18 | | 2 |
| 843 | An improved fruit fly optimization algorithm for solving the multidimensional knapsack problem. 2017 , 50, 79-93 | | 66 |
| 842 | Analyzing the effects of binarization techniques when solving the set covering problem through swarm optimization. 2017 , 70, 67-82 | | 38 |
| 841 | Power load forecasting by wavelet least squares support vector machine with improved fruit fly optimization algorithm. 2017 , 33, 1122-1143 | | 13 |

| | | |
|-----|--|-----|
| 840 | A short-term power load forecasting model based on the generalized regression neural network with decreasing step fruit fly optimization algorithm. 2017 , 221, 24-31 | 141 |
| 839 | The application of 3D fruit fly optimization algorithm to the keywords analysis of Macau's international relations. 2017 , 23, 469-474 | 1 |
| 838 | Enhanced Difference Algorithm for Seismic Modeling Based on Fruit Fly Optimization. 2017 , 22, 353-364 | |
| 837 | A cooperated fruit fly optimization algorithm for Knapsack problem. 2017 , | 1 |
| 836 | Scheduling the hybrid flowshop problem using a global fruit fly optimizer. 2017 , | |
| 835 | Fruit fly optimization (FFO) for solving economic dispatch problem in power system. 2017 , | 0 |
| 834 | Improved FOA-ESN method using opposition-based learning mechanism for the network traffic prediction with multiple steps. 2017 , | 3 |
| 833 | A proposed whale search algorithm with adaptive random walk. 2017 , | 7 |
| 832 | A modified fruit fly optimization algorithm and its application to control of robot manipulators. 2017 , | 2 |
| 831 | An improved fruit fly optimization algorithm for solving traveling salesman problem. 2017 , 18, 1525-1533 | 12 |
| 830 | Prediction model of dissolved oxygen based on FOA-LSSVR. 2017 , | 3 |
| 829 | A Discrete Fruit Fly Optimization Algorithm for Traveling Salesman Problem. 2017 , | 1 |
| 828 | Dynamic spectrum allocation using fruit fly algorithm in cognitive network. 2017 , | |
| 827 | Fault diagnosis of wind turbine gearbox by diminishing step fruit fly algorithm optimized SVM. 2017 , | 0 |
| 826 | Optimized tire force estimation using extended Kalman filter and fruit fly optimization. 2017 , | 3 |
| 825 | Design of the fruit fly optimization algorithm based path planner for UAV in 3D environments. 2017 , | 5 |
| 824 | A self-adaptive modified fruit fly optimization algorithm. 2017 , | 1 |
| 823 | Galactic swarm optimization using artificial bee colony algorithm. 2017 , | |

| | | |
|-----|---|----|
| 822 | Feature selection using dynamic binary particle swarm optimization for Arabian horse identification system. 2017, | |
| 821 | . 2017, | 2 |
| 820 | Kernel-based fuzzy C-means clustering based on fruit fly optimization algorithm. 2017, | 4 |
| 819 | Research on the Evaluation for Condition-Based Maintenance of a Switch Cabinet Using a Hybrid Algorithm. 2017, | |
| 818 | Prediction of electrical equipment failure rate based on improved drosophila optimization algorithm. 2017, | 3 |
| 817 | Application of Powell fruit fly optimization algorithm to solutions of nonlinear equations. 2017, | |
| 816 | An effective fruit fly optimization algorithm for the hybrid flowshop scheduling problem. 2017, | |
| 815 | A Novel Denoising Method for an Acoustic-Based System through Empirical Mode Decomposition and an Improved Fruit Fly Optimization Algorithm. 2017, 7, 215 | 16 |
| 814 | Wind Speed Forecasting Based on EMD and GRNN Optimized by FOA. 2017, 10, 2001 | 30 |
| 813 | Two Kinds of Classifications Based on Improved Gravitational Search Algorithm and Particle Swarm Optimization Algorithm. 2017, 2017, 1-7 | 7 |
| 812 | Degradation state recognition of ultrasonic motor based upon locality preserving projection and support vector machine optimized by fruit fly optimization algorithm. 2017, | 1 |
| 811 | Location Model for Distribution Centers for Fulfilling Electronic Orders of Fresh Foods under Uncertain Demand. 2017, 2017, 1-13 | 3 |
| 810 | Research on Suspension with Novel Dampers Based on Developed FOA-LQG Control Algorithm. 2017, 2017, 1-12 | 3 |
| 809 | An improved chaotic fruit fly optimization based on a mutation strategy for simultaneous feature selection and parameter optimization for SVM and its applications. 2017, 12, e0173516 | 22 |
| 808 | Acceptable if building electricity price trend change to some biology trends. 2017, 33, 3069-3077 | 5 |
| 807 | Modified FOA Applied to Parameter Extraction of Flux-Gate Core. 2017, 2017, 1-8 | 1 |
| 806 | An Improved Fruit Fly Optimization Algorithm Incorporating Average Learning and Step Changing. 2017, | |
| 805 | A Novel Hybrid BND-FOA-LSSVM Model for Electricity Price Forecasting. 2017, 8, 120 | 4 |

| | | |
|-----|--|--------|
| 804 | A Non-Reference Image Denoising Method for Infrared Thermal Image Based on Enhanced Dual-Tree Complex Wavelet Optimized by Fruit Fly Algorithm and Bilateral Filter. 2017 , 7, 1190 | 10 |
| 803 | Feed-forward and generalised regression neural networks in modelling feeding behaviour of pigs in the grow-finish phase. 2018 , 173, 124-133 | 19 |
| 802 | A trust centric optimal service ranking approach for cloud service selection. 2018 , 86, 234-252 | 32 |
| 801 | A FOA-Optimized RBF Algorithm-Based Evaluation Research on E-commerce Websites. 2018 , 102, 2835-2851 | 1 |
| 800 | A novel effective diagnosis model based on optimized least squares support machine for gene microarray. 2018 , 66, 50-59 | 12 |
| 799 | Unveiling network-based functional features through integration of gene expression into protein networks. 2018 , 1864, 2349-2359 | 12 |
| 798 | Predicting the direction of stock markets using optimized neural networks with Google Trends. 2018 , 285, 188-195 | 71 |
| 797 | Optimal riser design method based on geometric reasoning method and fruit fly optimization algorithm in CAD. 2018 , 96, 53-65 | 3 |
| 796 | A new metaheuristic algorithm: car tracking optimization algorithm. 2018 , 22, 3857-3878 | 15 |
| 795 | Hybrid feature selection using component co-occurrence based feature relevance measurement. 2018 , 102, 83-99 | 23 |
| 794 | Improved Fruit-Fly Optimization Algorithm and Its Applications in Antenna Arrays Synthesis. 2018 , 66, 1756-1766 | 72 |
| 793 | SCGOSR: Surrogate-based constrained global optimization using space reduction. 2018 , 65, 462-477 | 43 |
| 792 | Review on meta-heuristics approaches for airside operation research. 2018 , 66, 104-133 | 57 |
| 791 | A hybrid variable neighborhood search algorithm for the hot rolling batch scheduling problem in compact strip production. 2018 , 116, 22-36 | 22 |
| 790 | A new improved fruit fly optimization algorithm IAFOA and its application to solve engineering optimization problems. <i>Knowledge-Based Systems</i> , 2018 , 144, 153-173 | 7-3 51 |
| 789 | Construct the prediction model for China agricultural output value based on the optimization neural network of fruit fly optimization algorithm. 2018 , 86, 663-669 | 14 |
| 788 | A Brain Storm Optimization With Multi-Information Interactions for Global Optimization Problems. 2018 , 6, 19304-19323 | 23 |
| 787 | A New Class Topper Optimization Algorithm with an Application to Data Clustering. 2018 , 1-1 | 24 |

| | | |
|-----|--|-------|
| 786 | A bibliography of metaheuristics-review from 2009 to 2015. 2018 , 22, 83-95 | 12 |
| 785 | Cyber Physical System and Big Data enabled energy efficient machining optimisation. 2018 , 187, 46-62 | 68 |
| 784 | A new monarch butterfly optimization with an improved crossover operator. 2018 , 18, 731-755 | 41 |
| 783 | A hybrid approach using genetic and fruit fly optimization algorithms for QoS-aware cloud service composition. 2018 , 29, 1773-1792 | 50 |
| 782 | A Collaborative Multiobjective Fruit Fly Optimization Algorithm for the Resource Constrained Unrelated Parallel Machine Green Scheduling Problem. 2018 , 48, 790-800 | 72 |
| 781 | DGM (1, 1) model optimized by MVO (multi-verse optimizer) for annual peak load forecasting. 2018 , 30, 1811-1825 | 14 |
| 780 | An effective fruit fly optimization algorithm with hybrid information exchange and its applications. 2018 , 9, 1623-1648 | 20 |
| 779 | Evolving the SVM model based on a hybrid method using swarm optimization techniques in combination with a genetic algorithm for medical diagnosis. 2018 , 77, 3889-3918 | 13 |
| 778 | A novel binary artificial bee colony algorithm for the set-union knapsack problem. 2018 , 78, 77-86 | 60 |
| 777 | A knowledge-guided multi-objective fruit fly optimization algorithm for the multi-skill resource constrained project scheduling problem. 2018 , 38, 54-63 | 77 |
| 776 | HMADSO: a novel hill Myna and desert Sparrow optimization algorithm for cooperative rendezvous and task allocation in FANETs. 2018 , 22, 6191-6214 | 10 |
| 775 | An improvement in fruit fly optimization algorithm by using sign parameters. 2018 , 22, 7587-7603 | 14 |
| 774 | A k-means binarization framework applied to multidimensional knapsack problem. 2018 , 48, 357-380 | 46 |
| 773 | Discussion of Application of the Firefly Algorithm to Optimal Operation of Reservoirs with the Purpose of Irrigation Supply and Hydropower Production by Irene Garousi-Nejad, Omid Bozorg-Haddad, Hugo A. Loziga, and Miguel A. Mariñ. 2018 , 144, 07017019 | 3 |
| 772 | Parameter estimation of activated sludge process based on an improved cuckoo search algorithm. 2018 , 249, 447-456 | 11 |
| 771 | DSLFC-FOA : Improved fruit fly optimization algorithm for application to structural engineering design optimization problems. 2018 , 55, 314-339 | 43 |
| 770 | Introduction to Intelligent Search Algorithms. 2018 , 33-64 | 4 |
| 769 | Novel fruit fly optimization algorithm with trend search and co-evolution. <i>Knowledge-Based Systems</i> , 2018 , 141, 1-17 | 73 33 |

| | | |
|-----|--|----|
| 768 | Adaptation of Binary Pigeon-Inspired Algorithm for Solving Multidimensional Knapsack Problem. 2018 , 743-751 | 6 |
| 767 | A novel parallel hurricane optimization algorithm for secure emission/economic load dispatch solution. 2018 , 63, 206-222 | 98 |
| 766 | Free-form surface parts quality inspection optimization with a novel sampling method. 2018 , 62, 550-570 | 7 |
| 765 | Bio-Inspired Optimization Algorithms. 2018 , 317-391 | 1 |
| 764 | Optimal design of a quadratic parameter varying vehicle suspension system using contrast-based Fruit Fly Optimisation. 2018 , 62, 463-477 | 24 |
| 763 | Novel artificial bee colony based feature selection method for filtering redundant information. 2018 , 48, 868-885 | 22 |
| 762 | Automotive magnetorheological dampers: modelling and parameter identification using contrast-based fruit fly optimisation. 2018 , 22, 8131-8149 | 10 |
| 761 | Hybridizing sine cosine algorithm with multi-orthogonal search strategy for engineering design problems. 2018 , 5, 249-273 | 52 |
| 760 | Environmental Health Oriented Optimal Temperature Control for Refrigeration Systems Based on a Fruit Fly Intelligent Algorithm. 2018 , 15, | 4 |
| 759 | Medical Image Segmentation Using Fruit Fly Optimization and Density Peaks Clustering. 2018 , 2018, 3052852 | 6 |
| 758 | A Vector Grouping Learning Brain Storm Optimization Algorithm for Global Optimization Problems. 2018 , 6, 78193-78213 | 11 |
| 757 | Orbital Angular Momentum Beams Synthesis Based on the Fruit Fly Optimization Algorithm. 2018 , | 2 |
| 756 | Fault diagnosis using improved pattern spectrum and fruit fly optimization algorithmSupport vector machine. 2018 , 10, 168781401881093 | 2 |
| 755 | Research about the Penetrating Power Limitation of Photovoltaic Based On Power Balance. 2018 , 452, 032052 | |
| 754 | An Enhanced Fruit Fly Optimization Algorithm Based on Elitist Learning and Differential Perturbation Strategy. 2018 , | |
| 753 | A Study of Cutting Tool Wear Prediction Utilizing Generalized Regression Neural Network with Improved Fruit Fly Optimization. 2018 , | 1 |
| 752 | An Application of Improved Fruit Fly Optimization Algorithm for Vibration Isolation System. 2018 , | 0 |
| 751 | A study on intelligent diagnostic method of short-wave receiving system based on SAFOA-LSSVM. 2018 , | |

| | | |
|-----|---|-----|
| 750 | A novel algorithm for the Optimal Reactive Power Dispatch. 2018, | 3 |
| 749 | An Improved Fruit Fly Optimization Algorithm for Solving Multidimensional Knapsack Problem. 2018, | |
| 748 | An Ameliorated Moth-Flame Optimization Algorithm. 2018, | 1 |
| 747 | A Dynamic Generalized Opposition-Based Learning Fruit Fly Algorithm for Function Optimization. 2018, | 1 |
| 746 | Detecting and Resolving Inconsistencies in Snort. 2018, | 1 |
| 745 | Wind Power Day-ahead Prediction Based on LSSVM With Fruit Fly Optimization Algorithm. 2018, | 3 |
| 744 | Predicting vacant parking space availability: an SVR method with fruit fly optimisation. 2018, 12, 1414-1420 | 28 |
| 743 | Financial Data Forecasting Using Optimized Echo State Network. 2018, 138-149 | 4 |
| 742 | A Double Evolutionary Learning Moth-Flame Optimization for Real-Parameter Global Optimization Problems. 2018, 6, 76700-76727 | 28 |
| 741 | Swarm Intelligence Algorithms for Feature Selection: A Review. 2018, 8, 1521 | 128 |
| 740 | A Novel Real-Time Image Restoration Algorithm in Edge Computing. 2018, 2018, 1-13 | 3 |
| 739 | An Enhanced Fruit Fly Optimization for the Flexible Job Shop Scheduling Problem with Lot Streaming. 2018, | 2 |
| 738 | An Effective Fruit Fly Optimization for the Distributed Assembly Flowshop Scheduling Problem. 2018, | |
| 737 | Improved Fruit Fly Optimization Algorithm Incorporating Tabu Search for Optimizing the Selection of Elements in Trusses. 2018, 22, 4940-4954 | 4 |
| 736 | An Improved Fruit Fly Optimization Algorithm for Solving High Dimensional Problems. 2018, | 1 |
| 735 | A Double-Layer Detection and Classification Approach for Network Attacks. 2018, | 1 |
| 734 | A New Effective Machine Learning Framework for Sepsis Diagnosis. 2018, 6, 48300-48310 | 38 |
| 733 | Antenna Design by Means of the Fruit Fly Optimization Algorithm. 2018, 7, 3 | 9 |

| | | |
|-----|---|-----|
| 732 | A new optimization particle filtering navigation location method for aquatic plants cleaning workboat in crab farming. 2018 , 15, 172988141878791 | 1 |
| 731 | Forecasting of Power Grid Investment in China Based on Support Vector Machine Optimized by Differential Evolution Algorithm and Grey Wolf Optimization Algorithm. 2018 , 8, 636 | 24 |
| 730 | The Influencing Factors, Regional Difference and Temporal Variation of Industrial Technology Innovation: Evidence with the FOA-GRNN Model. 2018 , 10, 187 | 10 |
| 729 | A novel hybrid bat algorithm for solving continuous optimization problems. 2018 , 73, 67-82 | 43 |
| 728 | A Solution to Non-convex/Convex and Dynamic Economic Load Dispatch Problem Using Moth Flame Optimizer. 2018 , 3, 65-86 | 11 |
| 727 | A novel phase angle-encoded fruit fly optimization algorithm with mutation adaptation mechanism applied to UAV path planning. 2018 , 70, 371-388 | 50 |
| 726 | An improved grey wolf optimizer algorithm for the inversion of geoelectrical data. 2018 , 66, 607-621 | 1 |
| 725 | A novel optimised self-learning method for compressive strength prediction of high performance concrete. 2018 , 184, 229-247 | 59 |
| 724 | An Improved Fruit Fly Optimization Algorithm and Its Application in Heat Exchange Fouling Ultrasonic Detection. 2018 , 2018, 1-9 | 2 |
| 723 | TGA: Team game algorithm. 2018 , 3, 191-199 | 15 |
| 722 | A comprehensive review of quadratic assignment problem: variants, hybrids and applications. 2018 , 1 | 24 |
| 721 | Improved fruit fly optimization algorithm for traveling salesman problem. 2018 , | |
| 720 | Mixed chaotic FOA with GRNN to construction of a mutual fund forecasting model. 2018 , 52, 380-386 | 8 |
| 719 | Improving Monarch Butterfly Optimization Algorithm with Self-Adaptive Population. 2018 , 11, 71 | 11 |
| 718 | Computational Intelligence Approaches for Energy Load Forecasting in Smart Energy Management Grids: State of the Art, Future Challenges, and Research Directions. 2018 , 11, 596 | 106 |
| 717 | Enhanced Moth-flame Optimization Based on Cultural Learning and Gaussian Mutation. 2018 , 15, 751-763 | 23 |
| 716 | Sustainability Evaluation of Power Grid Construction Projects Using Improved TOPSIS and Least Square Support Vector Machine with Modified Fly Optimization Algorithm. 2018 , 10, 231 | 17 |
| 715 | An Ameliorative Whale Optimization Algorithm for Multi-Objective Optimal Allocation of Water Resources in Handan, China. 2018 , 10, 87 | 36 |

| | | | |
|-----|---|-----|-----|
| 714 | Stock price prediction based on Grey Relational Analysis and support vector regression. 2018, | | 3 |
| 713 | Farmland fertility: A new metaheuristic algorithm for solving continuous optimization problems. 2018, 71, 728-746 | | 133 |
| 712 | Application of Grey Wolf Optimization for Solving Combinatorial Problems: Job Shop and Flexible Job Shop Scheduling Cases. 2018, 6, 26231-26240 | | 58 |
| 711 | Effective sparse adaboost method with ESN and FOA for industrial electricity consumption forecasting in China. 2018, 155, 1013-1031 | | 58 |
| 710 | An efficient binary Salp Swarm Algorithm with crossover scheme for feature selection problems. <i>Knowledge-Based Systems</i> , 2018, 154, 43-67 | 7-3 | 339 |
| 709 | The Analysis and Improvement of the Fuzzy Weighted Optimum Curve-Fitting Method of Pearson \square Type III Distribution. 2018, 32, 4511-4526 | | 9 |
| 708 | A New Hybrid Model Based on Fruit Fly Optimization Algorithm and Wavelet Neural Network and Its Application to Underwater Acoustic Signal Prediction. 2018, 2018, 1-8 | | 4 |
| 707 | Illumination-based texture descriptor and fruitfly support vector neural network for image forgery detection in face images. 2018, 12, 1439-1449 | | 12 |
| 706 | A feature selection method based on an improved fruit fly optimization algorithm in the process of numerical control milling. 2018, 10, 168781401877822 | | 2 |
| 705 | Short term electricity load forecasting using a hybrid model. 2018, 158, 774-781 | | 124 |
| 704 | Parameters Optimization of PID Controller Based on Improved Fruit Fly Optimization Algorithm. 2018, 421-431 | | 1 |
| 703 | Emperor penguin optimizer: A bio-inspired algorithm for engineering problems. <i>Knowledge-Based Systems</i> , 2018, 159, 20-50 | 7-3 | 342 |
| 702 | Computational Methods for Application in Industry 4.0. 2019, | | 4 |
| 701 | Fruit fly algorithm-based automatic generation control of multiarea interconnected power system with FACTS and AC/DC links in deregulated power environment. 2019, 29, e2690 | | 28 |
| 700 | Swarm Intelligence-Based Methods. 2019, 33-55 | | 1 |
| 699 | A novel atom search optimization for dispersion coefficient estimation in groundwater. 2019, 91, 601-610 | | 87 |
| 698 | Sustainable Machining Process: Qualitative Analysis and Energy Efficiency Optimization. 2019, 165-189 | | 1 |
| 697 | An improved hybrid grey wolf optimization algorithm. 2019, 23, 6617-6631 | | 77 |

| | | |
|-----|--|----|
| 696 | Performance Comparison of FOA Optimized Several Classical Controllers for Multi-area Multi-sources Power System. 2019 , 417-426 | 1 |
| 695 | Cyber-Physical System and Big Data-Enabled Scheduling Optimization for Sustainable Machining. 2019 , 129-164 | |
| 694 | Optimization design of pushing distance estimation of hydraulic support using the Kalman filter with the covariance improvement. 2019 , 11, 168781401985072 | 1 |
| 693 | Effect of cutting parameters on tool wear under minimum quantity cooling lubrication (MQCL) conditions. 2019 , 105, 515-529 | 3 |
| 692 | A Hybrid Algorithm Based on Squirrel Search Algorithm and Invasive Weed Optimization for Optimization. 2019 , 7, 105652-105668 | 12 |
| 691 | Efficient Spectrum Reshaping with Photonic Gauge Potentials in Resonantly Modulated Fiber-Loop Circuits. 2019 , 12, | 4 |
| 690 | A novel optimization booster algorithm. 2019 , 136, 591-613 | 10 |
| 689 | Tool wear monitoring using generalized regression neural network. 2019 , 11, 168781401984917 | 5 |
| 688 | Supply-Demand-Based Optimization: A Novel Economics-Inspired Algorithm for Global Optimization. 2019 , 7, 73182-73206 | 52 |
| 687 | Exploiting Quality-Guided Adaptive Optimization for Fusing Multimodal Medical Images. 2019 , 7, 96048-96059 | 2 |
| 686 | Research on the Pressure Impact Characteristic of Continuous Rotary Electro-Hydraulic Servo Motor. 2019 , 7, 92968-92978 | 0 |
| 685 | Multi-Objective PSO Based Task Scheduling - A Load Balancing Approach in Cloud. 2019 , | 5 |
| 684 | A modified camel travelling behaviour algorithm for engineering applications. 2019 , 16, 176-186 | 4 |
| 683 | Quantum Behaved Fruit Fly Optimization Algorithm for Continuous Function Optimization Problems. 2019 , 331-340 | 1 |
| 682 | Pattern synthesis of the multimode orbital angular momentum beams based on the fruit fly optimization algorithm. 2019 , 29, e21876 | 4 |
| 681 | Solving Scheduling Problem in a Distributed Manufacturing System Using a Discrete Fruit Fly Optimization Algorithm. 2019 , 12, 3260 | 11 |
| 680 | Cost Forecasting Model of Transformer Substation Projects Based on Data Inconsistency Rate and Modified Deep Convolutional Neural Network. 2019 , 12, 3043 | 1 |
| 679 | User Association and Resource Allocation in Full-Duplex Relay Aided NOMA Systems. 2019 , 6, 10580-10596 | 9 |

| | | |
|-----|---|-----|
| 678 | Long Short-Term Memory Neural Network Applied to Train Dynamic Model and Speed Prediction. 2019 , 12, 173 | 5 |
| 677 | Fusion Recognition of Shearer Coal-Rock Cutting State Based on Improved RBF Neural Network and D-S Evidence Theory. 2019 , 7, 122106-122121 | 15 |
| 676 | A Novel Candidate Solution Generation Strategy for Fruit Fly Optimizer. 2019 , 7, 130903-130921 | 4 |
| 675 | . 2019 , 7, 138364-138377 | 14 |
| 674 | Fruit fly optimization algorithm based on a hybrid adaptive-cooperative learning and its application in multilevel image thresholding. 2019 , 84, 105704 | 21 |
| 673 | A Combined Forecasting Model for Satellite Network Self-Similar Traffic. 2019 , 7, 152004-152013 | 7 |
| 672 | Adaptive multi-group fruit fly optimization algorithm. 2019 , | 0 |
| 671 | A survey on new generation metaheuristic algorithms. 2019 , 137, 106040 | 228 |
| 670 | . 2019 , | 11 |
| 669 | Support Vector Regression Integrated with Fruit Fly Optimization Algorithm for River Flow Forecasting in Lake Urmia Basin. 2019 , 11, 1934 | 27 |
| 668 | A novel hybrid algorithm based on PSO and FOA for target searching in unknown environments. 2019 , 49, 2603-2622 | 24 |
| 667 | An improved rough set approach for optimal trust measure parameter selection in cloud environments. 2019 , 23, 11979-11999 | 11 |
| 666 | A multi-start variable neighbourhood descent algorithm for hybrid flowshop rescheduling. 2019 , 45, 92-112 | 48 |
| 665 | Moth Flame Clustering Algorithm for Internet of Vehicle (MFCA-IoV). 2019 , 7, 11613-11629 | 34 |
| 664 | A novel composite neural network based method for wind and solar power forecasting in microgrids. 2019 , 251, 113353 | 36 |
| 663 | Deer Hunting Optimization Algorithm: A New Nature-Inspired Meta-heuristic Paradigm. 2019 , | 65 |
| 662 | A comprehensive review on nature inspired computing algorithms for the diagnosis of chronic disorders in human beings. 2019 , 8, 401-424 | 18 |
| 661 | Performance degradation assessment of slewing bearings based on deep auto-encoder and optimized particle filtering. 2019 , 25, 2380-2394 | 4 |

| | | | |
|-----|---|-----|----|
| 660 | Short-term load forecasting of urban gas using a hybrid model based on improved fruit fly optimization algorithm and support vector machine. 2019 , 5, 666-677 | | 40 |
| 659 | BIFFOA: A Novel Binary Improved Fruit Fly Algorithm for Feature Selection. 2019 , 7, 81177-81194 | | 7 |
| 658 | Prediction of microfibril angle in Dahurian larch wood using visible-near infrared spectroscopy and chemometric techniques. 2019 , 27, 270-277 | | 0 |
| 657 | Optimal design of planar terahertz Yagi-Uda antenna using adaptive chaos optimization algorithm. 2019 , 191, 146-151 | | 2 |
| 656 | Multi-objective low-carbon disassembly line balancing for agricultural machinery using MDFOA and fuzzy AHP. 2019 , 233, 1465-1474 | | 22 |
| 655 | A new fruit fly optimization algorithm enhanced support vector machine for diagnosis of breast cancer based on high-level features. 2019 , 20, 290 | | 53 |
| 654 | An Optimized Image Watermarking Method Based on HD and SVD in DWT Domain. 2019 , 7, 80849-80860 | | 43 |
| 653 | Optimization of Adaptive Noise Canceller with Grey Wolf Optimizer for EEG/ERP Signal Noise Cancellation. 2019 , | | 2 |
| 652 | A novel improved fruit fly optimization algorithm for aerodynamic shape design optimization. <i>Knowledge-Based Systems</i> , 2019 , 179, 77-91 | 7-3 | 20 |
| 651 | A chaotic salp swarm algorithm based on quadratic integrate and fire neural model for function optimization. 2019 , 8, 343-358 | | 13 |
| 650 | Development of a Novel Bio Inspired Framework for Fertilizer Optimization. 2019 , | | 1 |
| 649 | The economic lot scheduling problem in limited-buffer flexible flow shops: Mathematical models and a discrete fruit fly algorithm. 2019 , 80, 904-919 | | 11 |
| 648 | Novel MPPT techniques for photovoltaic systems under uniform irradiance and Partial shading. 2019 , 184, 628-648 | | 57 |
| 647 | Improved antlion optimization algorithm via tournament selection and its application to parallel machine scheduling. 2019 , 132, 166-186 | | 16 |
| 646 | Adaptive Operator Quantum-Behaved Pigeon-Inspired Optimization Algorithm with Application to UAV Path Planning. 2019 , 12, 3 | | 14 |
| 645 | A Novel Nonlinear Function Fitting Model Based on FOA and GRNN. 2019 , 2019, 1-10 | | 4 |
| 644 | Encoding transformation-based differential evolution algorithm for solving knapsack problem with single continuous variable. 2019 , 50, 100507 | | 5 |
| 643 | Chaos-Induced and Mutation-Driven Schemes Boosting Salp Chains-Inspired Optimizers. 2019 , 7, 31243-31261 | | 62 |

| | | |
|-----|---|--------|
| 642 | Intelligent system with dragonfly optimisation for caries detection. 2019 , 13, 429-439 | 7 |
| 641 | Optimization of Municipal Waste Collection Routing: Impact of Industry 4.0 Technologies on Environmental Awareness and Sustainability. 2019 , 16, | 48 |
| 640 | Whale Optimization Algorithm Based on Lamarckian Learning for Global Optimization Problems. 2019 , 7, 36642-36666 | 21 |
| 639 | Hybrid based cluster head selection for maximizing network lifetime and energy efficiency in WSN. 2019 , | 21 |
| 638 | New fruit fly optimization algorithm with joint search strategies for function optimization problems. <i>Knowledge-Based Systems</i> , 2019 , 176, 77-96 | 7-3 27 |
| 637 | The Fruit Fly Optimization Algorithms for Patient-Centered Care Based on Interval Trapezoidal Type-2 Fuzzy Numbers. 2019 , 21, 1270-1287 | 8 |
| 636 | An Improved Fruit Fly Optimization (IFFOA) based Cluster Head Selection Algorithm for Internet of Things. 2019 , 1-9 | 3 |
| 635 | Research on Control Parameters for Voltage Source Inverter Output Controllers of Micro-Grids Based on the Fruit Fly Optimization Algorithm. 2019 , 9, 1327 | 6 |
| 634 | An efficient chaotic mutative moth-flame-inspired optimizer for global optimization tasks. 2019 , 129, 135-155 | 142 |
| 633 | Performance degradation assessment of a wind turbine gearbox based on multi-sensor data fusion. 2019 , 137, 509-526 | 48 |
| 632 | A Quasi-Operational-Chaotic Symbiotic Organisms Search algorithm for global optimization problems. 2019 , 77, 567-583 | 45 |
| 631 | Improved Monarch Butterfly Optimization Algorithm Based on Opposition-Based Learning and Random Local Perturbation. 2019 , 2019, 1-20 | 29 |
| 630 | Novel fruit fly algorithm for global optimisation and its application to short-term wind forecasting. 2019 , 31, 244-266 | 9 |
| 629 | An Enhanced Brain Storm Sine Cosine Algorithm for Global Optimization Problems. 2019 , 7, 28211-28229 | 13 |
| 628 | Parameter optimization for FPSO design using an improved FOA and IFOA-BP neural network. 2019 , 175, 50-61 | 22 |
| 627 | Energy-Efficient machining process analysis and optimisation based on BS EN24T alloy steel as case studies. 2019 , 58, 1-12 | 12 |
| 626 | Two-step damage source localization of threedimensional braided composites considering material anisotropy. 2019 , | |
| 625 | . 2019 , | |

| | | | |
|-----|--|-----|-----|
| 624 | Gene Selection for scRNA-Seq Data Based on Information Gain and Fruit Fly Optimization Algorithm. 2019 , | | 1 |
| 623 | A Novel Adaptive Channel Equalizer Based on Artificial Neural Network Trained by Modified FOA. 2019 , | | |
| 622 | A Hybridized Adaptive Fruit Fly Optimization Based Online Sequential Extreme Learning Machine for Bio-Medical Data Classification. 2019 , | | 1 |
| 621 | Multi-Objective Hybrid Optimization based Dynamic Resource Management Scheme for Cloud Computing Environments. 2019 , | | 2 |
| 620 | Advanced Fruit Fly Optimization Algorithm and Its Application to Irregular Subarray Phased Array Antenna Synthesis. 2019 , 7, 165583-165596 | | 7 |
| 619 | State-of-the-Art Research on Motion Control of Maritime Autonomous Surface Ships. 2019 , 7, 438 | | 27 |
| 618 | A bibliometric study on intelligent techniques of bankruptcy prediction for corporate firms. 2019 , 5, e02997 | | 12 |
| 617 | Comparative Analysis of Machine Learning Models for Prediction of Remaining Service Life of Flexible Pavement. 2019 , 7, 1198 | | 14 |
| 616 | Nonlinear Dynamic System Predictions Based on Neural Networks with Fruit Fly Optimization Algorithms. 2019 , | | |
| 615 | Short-term electricity load forecasting based on feature selection and Least Squares Support Vector Machines. <i>Knowledge-Based Systems</i> , 2019 , 163, 159-173 | 7-3 | 83 |
| 614 | Atom search optimization and its application to solve a hydrogeologic parameter estimation problem. <i>Knowledge-Based Systems</i> , 2019 , 163, 283-304 | 7-3 | 204 |
| 613 | A clustering algorithm applied to the binarization of Swarm intelligence continuous metaheuristics. 2019 , 44, 646-664 | | 40 |
| 612 | Local and global characteristics-based kernel hybridization to increase optimal support vector machine performance for stock market prediction. 2019 , 60, 971-1000 | | 41 |
| 611 | Multi-surrogate-based global optimization using a score-based infill criterion. 2019 , 59, 485-506 | | 23 |
| 610 | Optimal Gating System Design of Steel Casting by Fruit Fly Optimization Algorithm Based on Casting Simulation Technology. 2019 , 13, 561-570 | | 2 |
| 609 | A hybrid whale optimization algorithm based on modified differential evolution for global optimization problems. 2019 , 49, 1982-2000 | | 50 |
| 608 | Prediction of Gas Utilization Ratio Based on the Kernel Extreme Learning Machine. 2019 , 463-471 | | |
| 607 | Object Pose Estimation in Accommodation Space using an Improved Fruit Fly Optimization Algorithm. 2019 , 95, 405-417 | | 4 |

| | | | |
|-----|--|----|-----|
| 606 | EChaotic map enabled Grey Wolf Optimizer. 2019 , 75, 84-105 | | 61 |
| 605 | Seagull optimization algorithm: Theory and its applications for large-scale industrial engineering problems. <i>Knowledge-Based Systems</i> , 2019 , 165, 169-196 | 73 | 313 |
| 604 | Fault Diagnosis of Variable Load Bearing Based on Quantum Chaotic Fruit Fly VMD and Variational RVM. 2019 , 2019, 1-20 | | 103 |
| 603 | Salinity Profile Estimation in the Pacific Ocean from Satellite Surface Salinity Observations. 2019 , 36, 53-68 | | 22 |
| 602 | Short term load forecasting based on feature extraction and improved general regression neural network model. 2019 , 166, 653-663 | | 117 |
| 601 | Symbiotic organisms search algorithm: Theory, recent advances and applications. 2019 , 119, 184-209 | | 75 |
| 600 | Swarm hyperheuristic framework. 2019 , 25, 809-836 | | 2 |
| 599 | End-point Prediction of BOF Steelmaking Based on KNNWTSVR and LWOA. 2019 , 72, 257-270 | | 9 |
| 598 | Risk prediction and factors risk analysis based on IFOA-GRNN and apriori algorithms: Application of artificial intelligence in accident prevention. 2019 , 122, 169-184 | | 43 |
| 597 | WHO: A New Evolutionary Algorithm Bio-Inspired by Wildebeests with a Case Study on Bank Customer Segmentation. 2019 , 33, 1959017 | | 7 |
| 596 | A dynamic SVRARMA model with improved fruit fly algorithm for the nonlinear fiber stretching process. 2019 , 18, 747-756 | | 6 |
| 595 | Maximal coverage hybrid search algorithm for deployment in wireless sensor networks. 2019 , 25, 637-652 | | 7 |
| 594 | Predictions models of Taiwan dollar to US dollar and RMB exchange rate based on modified PSO and GRNN. 2019 , 22, 10993-11004 | | 2 |
| 593 | A tuned hybrid intelligent fruit fly optimization algorithm for fuzzy rule generation and classification. 2019 , 31, 873-885 | | 13 |
| 592 | An improved backtracking search algorithm for casting heat treatment charge plan problem. 2019 , 30, 1335-1350 | | 7 |
| 591 | Clustered negative selection algorithm and fruit fly optimization for email spam detection. 2019 , 10, 143-152 | | 24 |
| 590 | A novel nature-inspired algorithm for optimization: Squirrel search algorithm. 2019 , 44, 148-175 | | 359 |
| 589 | A novel modified flower pollination algorithm for global optimization. 2019 , 31, 3875-3908 | | 7 |

| | | |
|-----|--|-----|
| 588 | Metaheuristic research: a comprehensive survey. 2019 , 52, 2191-2233 | 240 |
| 587 | Krill herd algorithm based on cuckoo search for solving engineering optimization problems. 2019 , 78, 3861-3884 | 24 |
| 586 | Self-adaptive fruit fly optimizer for global optimization. 2019 , 18, 785-813 | 14 |
| 585 | Financial crisis prediction model using ant colony optimization. 2020 , 50, 538-556 | 50 |
| 584 | Improved grey wolf optimization based on the two-stage search of hybrid CMA-ES. 2020 , 24, 1097-1115 | 5 |
| 583 | Optimal Shortest Path in Mobile Ad-Hoc Network Based on Fruit Fly Optimization Algorithm. 2020 , 91-101 | 5 |
| 582 | Learning Interaction Diversification framework for swarm intelligence optimizers: a unified perspective. 2020 , 32, 1789-1809 | 16 |
| 581 | An improved fruit fly optimization algorithm based on knowledge memory. 2020 , 42, 558-568 | |
| 580 | Gaussian mutational chaotic fruit fly-built optimization and feature selection. 2020 , 141, 112976 | 123 |
| 579 | An improved evolution fruit fly optimization algorithm and its application. 2020 , 32, 9897-9914 | 6 |
| 578 | A space transformational crow search algorithm for optimization problems. 2020 , 13, 345-364 | 5 |
| 577 | A hybrid algorithm for carbon dioxide emissions forecasting based on improved lion swarm optimizer. 2020 , 244, 118612 | 76 |
| 576 | An adaptive hybrid model for short term wind speed forecasting. 2020 , 190, 115615 | 38 |
| 575 | Efficient multi-population outpost fruit fly-driven optimizers: Framework and advances in support vector machines. 2020 , 142, 112999 | 64 |
| 574 | Sandpiper optimization algorithm: a novel approach for solving real-life engineering problems. 2020 , 50, 582-619 | 21 |
| 573 | Frequency-constrained truss optimization using the fruit fly optimization algorithm with an adaptive vision search strategy. 2020 , 52, 777-797 | 10 |
| 572 | A short-term traffic forecasting model based on echo state network optimized by improved fruit fly optimization algorithm. 2020 , 416, 117-124 | 13 |
| 571 | Artificial ecosystem-based optimization: a novel nature-inspired meta-heuristic algorithm. 2020 , 32, 9383-9425 | 94 |

| | | |
|-----|--|-----|
| 570 | An Improved Flower Pollination Algorithm with Three Strategies and Its Applications. 2020 , 51, 675-695 | 2 |
| 569 | Comprehensive evaluation of disassembly performance based on the ultimate cross-efficiency and extension-gray correlation degree. 2020 , 245, 118800 | 15 |
| 568 | A novel life choice-based optimizer. 2020 , 24, 9121-9141 | 14 |
| 567 | Solution method for ill-conditioned problems based on a new improved fruit fly optimization algorithm. 2020 , 14, 55-64 | 1 |
| 566 | Soft sensor for the moisture content of crude oil based on multi-kernel Gaussian process regression optimized by an adaptive variable population fruit fly optimization algorithm. 2020 , 42, 770-785 | 7 |
| 565 | Optimal Path Finding With Beetle Antennae Search Algorithm by Using Ant Colony Optimization Initialization and Different Searching Strategies. 2020 , 8, 15459-15471 | 24 |
| 564 | An improved fruit fly algorithm-unscented Kalman filter-echo state network method for time series prediction of the network traffic data with noises. 2020 , 42, 1281-1293 | 7 |
| 563 | A new improved whale optimization algorithm with joint search mechanisms for high-dimensional global optimization problems. 2020 , 37, 1851 | 19 |
| 562 | Multivector particle swarm optimization algorithm. 2020 , 24, 11695-11713 | 7 |
| 561 | Holt-Winters smoothing enhanced by fruit fly optimization algorithm to forecast monthly electricity consumption. 2020 , 193, 116779 | 32 |
| 560 | Hybrid Particle Swarm Optimization with Sine Cosine Algorithm and Nelder-Mead Simplex for Solving Engineering Design Problems. 2020 , 45, 3091-3109 | 13 |
| 559 | Mitigating Metaphors: A Comprehensible Guide to Recent Nature-Inspired Algorithms. 2020 , 1, 1 | 31 |
| 558 | Link-based multi-verse optimizer for text documents clustering. 2020 , 87, 106002 | 29 |
| 557 | Gaining-sharing knowledge based algorithm for solving optimization problems: a novel nature-inspired algorithm. 2020 , 11, 1501-1529 | 114 |
| 556 | Hybrid enhanced discrete fruit fly optimization algorithm for scheduling blocking flow-shop in distributed environment. 2020 , 145, 113147 | 34 |
| 555 | Electric fish optimization: a new heuristic algorithm inspired by electrolocation. 2020 , 32, 11543-11578 | 24 |
| 554 | Carbon trading volume and price forecasting in China using multiple machine learning models. 2020 , 249, 119386 | 69 |
| 553 | Random orthocenter strategy in interior search algorithm and its engineering application. 2020 , 24, 5933-5948 | 0 |

| | | | |
|-----|---|-----|----|
| 552 | The Routing Control in Mobile Ad hoc Network Using Intelligent Optimization Algorithms. 2020 , | | |
| 551 | An Improved Grasshopper Optimizer for Global Tasks. 2020 , 2020, 1-23 | | 3 |
| 550 | Multi-fidelity meta-optimization for nature inspired optimization algorithms. 2020 , 96, 106619 | | 2 |
| 549 | Novel Manta Rays Foraging Optimization Algorithm Based Optimal Control for Grid-Connected PV Energy System. 2020 , 8, 187276-187290 | | 11 |
| 548 | Studying Heuristics Adaptation to a Specific Degree of Fuzziness. 2020 , | | |
| 547 | Site Selection and Layout of Earthquake Rescue Center Based on K-Means Clustering and Fruit Fly Optimization Algorithm. 2020 , | | |
| 546 | ESSAWOA: Enhanced Whale Optimization Algorithm integrated with Salp Swarm Algorithm for global optimization. 2020 , 1 | | 12 |
| 545 | Multi-population following behavior-driven fruit fly optimization: A Markov chain convergence proof and comprehensive analysis. <i>Knowledge-Based Systems</i> , 2020 , 210, 106437 | 7-3 | 36 |
| 544 | Rapid Fine-Grained Classification of Butterflies Based on FCM-KM and Mask R-CNN Fusion. 2020 , 8, 124722-124733 | | 4 |
| 543 | Joint Pilot and Data Transmission Power Control and Computing Resource Allocation Algorithm for Massive MIMO-MEC Networks. 2020 , 8, 80801-80811 | | 6 |
| 542 | An Improved Moth Flame Optimization Algorithm for Minimizing Specific Fuel Consumption of Variable Cycle Engine. 2020 , 8, 142725-142735 | | 1 |
| 541 | Research on New Adaptive Whale Algorithm. 2020 , 8, 90165-90201 | | 5 |
| 540 | Path planning of multiple UAVs with online changing tasks by an ORPFOA algorithm. 2020 , 94, 103807 | | 22 |
| 539 | A Chaotic Hybrid Butterfly Optimization Algorithm with Particle Swarm Optimization for High-Dimensional Optimization Problems. 2020 , 12, 1800 | | 19 |
| 538 | Improved Harris Hawks Optimization Based on Adaptive Cooperative Foraging and Dispersed Foraging Strategies. 2020 , 8, 160297-160314 | | 6 |
| 537 | Meta-heuristic based optimization of WSNs Localisation Problem- a Survey. 2020 , 173, 36-45 | | 5 |
| 536 | An improved moth-flame optimization algorithm with orthogonal opposition-based learning and modified position updating mechanism of moths for global optimization problems. 2020 , 50, 4434-4458 | | 8 |
| 535 | Optimizing biodiesel production from abundant waste oils through empirical method and grey wolf optimizer. 2020 , 281, 118701 | | 46 |

| | | | |
|-----|---|----|----|
| 534 | Fusion with distance-aware selection strategy for dandelion algorithm. <i>Knowledge-Based Systems</i> , 2020 , 205, 106282 | 73 | 0 |
| 533 | Grey wolf optimizer with an enhanced hierarchy and its application to the wireless sensor network coverage optimization problem. 2020 , 96, 106602 | | 18 |
| 532 | A Comprehensive Review of the Load Forecasting Techniques Using Single and Hybrid Predictive Models. 2020 , 8, 134911-134939 | | 50 |
| 531 | An optimized combination prediction model for concrete dam deformation considering quantitative evaluation and hysteresis correction. 2020 , 46, 101154 | | 15 |
| 530 | An improved FOA-GRNN integrated in health estimation for RF electronic system. 2020 , | | |
| 529 | Development of modified cooperative particle swarm optimization with inertia weight for feature selection. 2020 , 7, 1788876 | | 2 |
| 528 | An Initial Alignment Technology of Shearer Inertial Navigation Positioning Based on a Fruit Fly-Optimized Kalman Filter Algorithm. 2020 , 2020, 8876918 | | 1 |
| 527 | A probability-based core dandelion guided dandelion algorithm and application to traffic flow prediction. 2020 , 96, 103922 | | 1 |
| 526 | Two-Stage Optimization Model of Agricultural Product Distribution in Remote Rural Areas. 2020 , 8, 213928-213949 | | |
| 525 | Optimal Sizing of Energy Storage Based on Improved Fruit Fly Algorithm. 2020 , | | 0 |
| 524 | Predicting Di-2-Ethylhexyl Phthalate Toxicity: Hybrid Integrated Harris Hawks Optimization With Support Vector Machines. 2020 , 8, 161188-161202 | | 8 |
| 523 | Solving the Multi-Functional Heterogeneous UAV Cooperative Mission Planning Problem Using Multi-Swarm Fruit Fly Optimization Algorithm. 2020 , 20, | | 9 |
| 522 | An Adaptive Grey Wolf Algorithm Based on Population System and Bacterial Foraging Algorithm. 2020 , | | 0 |
| 521 | High-Frequency Path Mining-Based Reward and Punishment Mechanism for Multi-Colony Ant Colony Optimization. 2020 , 8, 155459-155476 | | 3 |
| 520 | Pareto Assumption for Constrained PSO-Based Locomotive Resistance Minimization. 2020 , 2020, 1-13 | | |
| 519 | Optimization of Order-Picking Problems by Intelligent Optimization Algorithm. 2020 , 2020, 1-12 | | 1 |
| 518 | Optimal Chiller Loading for Energy Conservation Using an Improved Fruit Fly Optimization Algorithm. 2020 , 13, 3760 | | 4 |
| 517 | An efficient neural network optimized by fruit fly optimization algorithm for user equipment association in software-defined wireless sensor network. 2020 , 30, e2135 | | 2 |

| | | |
|-----|---|----|
| 516 | A Two-stage Algorithm for Fuzzy Online Order Dispatching Problem. 2020 , | 6 |
| 515 | A Visual ContrastBased Fruit Fly Algorithm for Optimizing Conventional and Nonconventional Machining Processes. 2020 , 109, 2901-2914 | 2 |
| 514 | A survey of the state-of-the-art swarm intelligence techniques and their application to an inverse design problem. 2020 , 19, 1606-1628 | 3 |
| 513 | . 2020 , 8, 204744-204762 | 7 |
| 512 | MEATSP: A Membrane Evolutionary Algorithm for Solving TSP. 2020 , 8, 199081-199096 | 5 |
| 511 | Optimal measurement area determination algorithm of articulated arm measuring machine based on improved FOA. 2020 , 53, 2146-2158 | 3 |
| 510 | A generalised regression neural network model of financing imbalance: Shari'ah compliance as the roadmap for sustainability of capital markets. 2020 , 39, 5387-5395 | 2 |
| 509 | Robust Optimization of Convolution Natural Network. 2020 , 1650, 032105 | |
| 508 | Fruit Fly Optimization Algorithm Based on Single-Gene Mutation for High-Dimensional Unconstrained Optimization Problems. 2020 , 2020, 1-8 | 1 |
| 507 | Metaheuristic Optimization of Power and Energy Systems: Underlying Principles and Main Issues of the Rush to Heuristics 2020 , 13, 5097 | 8 |
| 506 | Improved Whale Optimization Algorithm Based on Nonlinear Adaptive Weight and Golden Sine Operator. 2020 , 8, 77013-77048 | 10 |
| 505 | Finding Community Modules for Brain Networks Combined Uniform Design with Fruit Fly Optimization Algorithm. 2020 , 12, 178-192 | 1 |
| 504 | A novel hybrid multi-verse optimizer with K-means for text documents clustering. 2020 , 32, 17703-17729 | 16 |
| 503 | A wrapper-based feature selection for improving performance of intrusion detection systems. 2020 , 33, e4434 | 5 |
| 502 | Boosted binary Harris hawks optimizer and feature selection. 2020 , 37, 3741 | 97 |
| 501 | Robust aerodynamic shape optimization using a novel multi-objective evolutionary algorithm coupled with surrogate model. 2020 , 62, 1969-1987 | 2 |
| 500 | An Adaptive Image Watermarking Method Combining SVD and Wang-Landau Sampling in DWT Domain. 2020 , 8, 691 | 9 |
| 499 | Hybrid Mutation Fruit Fly Optimization Algorithm for Solving the Inverse Kinematics of a Redundant Robot Manipulator. 2020 , 2020, 1-13 | 6 |

| | | |
|-----|--|----|
| 498 | A Hybrid k-Means Cuckoo Search Algorithm Applied to the Counterfort Retaining Walls Problem. 2020 , 8, 555 | 25 |
| 497 | A Hybridized Levy Flight Fruit Fly Optimization Based Kernel Extreme Learning Machine for BioMedical Data Classification. 2020 , | 0 |
| 496 | A Novel Design of a Neural Network-Based Fractional PID Controller for Mobile Robots Using Hybridized Fruit Fly and Particle Swarm Optimization. 2020 , 2020, 1-18 | 35 |
| 495 | Boosted hunting-based fruit fly optimization and advances in real-world problems. 2020 , 159, 113502 | 13 |
| 494 | Ameliorated moth-flame algorithm and its application for modeling of silicon content in liquid iron of blast furnace based fast learning network. 2020 , 94, 106418 | 6 |
| 493 | Strengthen EEG-based emotion recognition using firefly integrated optimization algorithm. 2020 , 94, 106426 | 26 |
| 492 | Human urbanization algorithm: A novel metaheuristic approach. 2020 , 178, 1-15 | 2 |
| 491 | Daily reference evapotranspiration prediction of Tieguanyin tea plants based on mathematical morphology clustering and improved generalized regression neural network. 2020 , 236, 106177 | 5 |
| 490 | Research on real-time analysis technology of urban land use based on support vector machine. 2020 , 133, 320-326 | 2 |
| 489 | Quantum-like mutation-induced dragonfly-inspired optimization approach. 2020 , 178, 259-289 | 16 |
| 488 | A Hybrid Optimization Method OWGWA for EEG/ERP Adaptive Noise Canceller With Controlled Search Space. 2020 , 11, 30-48 | |
| 487 | PSSA: Polar Coordinate Salp Swarm Algorithm for Curve Design Problems. 2020 , 52, 615-645 | 2 |
| 486 | Border Collie Optimization. 2020 , 8, 109177-109197 | 20 |
| 485 | Application of generalized regression neural network optimized by fruit fly optimization algorithm for fracture toughness in a pearlitic steel. 2020 , 235, 107105 | 20 |
| 484 | Machine Learning Modeling of Aerobic Biodegradation for Azo Dyes and Hexavalent Chromium. 2020 , 8, 913 | 5 |
| 483 | A comprehensive review on water cycle algorithm and its applications. 2020 , 32, 17433-17488 | 12 |
| 482 | A hybrid model for monthly water demand prediction: A case study of Austin, Texas. 2020 , 2, e1175 | 4 |
| 481 | RWFOA: a random walk-based fruit fly optimization algorithm. 2020 , 24, 12681-12690 | 0 |

| | | |
|-----|--|----|
| 480 | Total and Partial Updating Technique: A Swift Approach for Cross-Section and Geometry Optimization of Truss Structures. 2020 , 24, 1219-1227 | 3 |
| 479 | A novel quasi-reflected Harris hawks optimization algorithm for global optimization problems. 2020 , 24, 14825-14843 | 35 |
| 478 | Predicting Cervical Hyperextension Injury: A Covariance Guided Sine Cosine Support Vector Machine. 2020 , 8, 46895-46908 | 35 |
| 477 | Effective long short-term memory with fruit fly optimization algorithm for time series forecasting. 2020 , 24, 15059-15079 | 35 |
| 476 | . 2020 , 69, 5219-5231 | 15 |
| 475 | Water strider algorithm: A new metaheuristic and applications. 2020 , 25, 520-541 | 58 |
| 474 | Rationalized Sine Cosine Optimization With Efficient Searching Patterns. 2020 , 8, 61471-61490 | 18 |
| 473 | Whale optimization algorithm: a systematic review of contemporary applications, modifications and developments. 2020 , 32, 16245-16277 | 45 |
| 472 | Optimal Performance and Application for Firework Algorithm Using a Novel Chaotic Approach. 2020 , 8, 120798-120817 | 4 |
| 471 | Adolescent Identity Search Algorithm (AISA): A novel metaheuristic approach for solving optimization problems. 2020 , 95, 106503 | 23 |
| 470 | . 2020 , 8, 156328-156346 | 10 |
| 469 | Off-Grid Power Plant Load Management System Applied in a Rural Area of Africa. 2020 , 10, 4171 | 2 |
| 468 | The optimized evidence k-Nearest Neighbor based on FOA under the hesitant fuzzy environment and its application in classification. 2020 , 39, 1119-1129 | 1 |
| 467 | Comprehensive Taxonomies of Nature- and Bio-inspired Optimization: Inspiration Versus Algorithmic Behavior, Critical Analysis Recommendations. 2020 , 12, 897-939 | 57 |
| 466 | Intelligent Technique Based on Enhanced Metaheuristic for Optimization Problem in Internet of Things and Wireless Sensor Network. 2020 , 12, 17-42 | 0 |
| 465 | Orthogonally-designed adapted grasshopper optimization: A comprehensive analysis. 2020 , 150, 113282 | 44 |
| 464 | Island-based Crow Search Algorithm for solving optimal control problems. 2020 , 90, 106170 | 16 |
| 463 | Harmony Search Method with Global Sharing Factor Based on Natural Number Coding for Vehicle Routing Problem. 2020 , 11, 86 | 4 |

| | | |
|-----|--|-----|
| 462 | Design optimization of confidentiality-critical cyber physical systems with fault detection. 2020 , 107, 101739 | 20 |
| 461 | Improved fruit fly algorithm on structural optimization. 2020 , 7, 1 | 16 |
| 460 | Tracking a dynamic invading target by UAV in oilfield inspection via an improved bat algorithm. 2020 , 90, 106150 | 16 |
| 459 | A Hybrid Data-Driven Method for Wire Rope Surface Defect Detection. 2020 , 20, 8297-8306 | 10 |
| 458 | A hybrid DBN-SOM-PF-based prognostic approach of remaining useful life for wind turbine gearbox. 2020 , 152, 138-154 | 27 |
| 457 | Camera calibration by using weighted differential evolution algorithm: a comparative study with ABC, PSO, COBIDE, DE, CS, GWO, TLBO, MVMO, FOA, LSHADE, ZHANG and BOUGUET. 2020 , 32, 17681-17701 | 8 |
| 456 | Multiple Swarm Fruit Fly Optimization Algorithm Based Path Planning Method for Multi-UAVs. 2020 , 10, 2822 | 7 |
| 455 | Remaining useful life prediction for Lithium-ion batteries using fractional Brownian motion and Fruit-fly Optimization Algorithm. 2020 , 161, 107904 | 41 |
| 454 | Rationalized fruit fly optimization with sine cosine algorithm: A comprehensive analysis. 2020 , 157, 113486 | 39 |
| 453 | Path planning of UAV for oilfield inspections in a three-dimensional dynamic environment with moving obstacles based on an improved pigeon-inspired optimization algorithm. 2020 , 50, 2800-2817 | 13 |
| 452 | Slime mould algorithm: A new method for stochastic optimization. 2020 , 111, 300-323 | 705 |
| 451 | Evaluation of Sino Foreign Cooperative Education Project Using Orthogonal Sine Cosine Optimized Kernel Extreme Learning Machine. 2020 , 8, 61107-61123 | 52 |
| 450 | Predicting Entrepreneurial Intention of Students: An Extreme Learning Machine With Gaussian Barebone Harris Hawks Optimizer. 2020 , 8, 76841-76855 | 64 |
| 449 | A db-Scan Hybrid Algorithm: An Application to the Multidimensional Knapsack Problem. 2020 , 8, 507 | 15 |
| 448 | Echo state network based on improved fruit fly optimization algorithm for chaotic time series prediction. 2020 , 1 | 12 |
| 447 | Newly Emerging Nature-Inspired Optimization - Algorithm Review, Unified Framework, Evaluation, and Behavioural Parameter Optimization. 2020 , 8, 72620-72649 | 16 |
| 446 | An Improved Harris Hawks Optimization for SAR Target Recognition and Stock Market Index Prediction. 2020 , 8, 65891-65910 | 12 |
| 445 | Strain prediction for critical positions of FPSO under different loading of stored oil using GAIFOA-BP neural network. 2020 , 72, 102762 | 9 |

| | | |
|-----|--|-----|
| 444 | Nature-inspired hybrid techniques of IWO, DA, ES, GA, and ICA, validated through a k-fold validation process predicting monthly natural gas consumption. 2020 , 217, 110023 | 55 |
| 443 | Multi-population differential evolution-assisted Harris hawks optimization: Framework and case studies. 2020 , 111, 175-198 | 177 |
| 442 | A dynamic adaptive firefly algorithm with globally orientation. 2020 , 174, 76-101 | 17 |
| 441 | Advertisement valid time triggered firefly and fruit-fly inspired approach for efficient cluster formation and standby CH selection in hierarchical wireless sensor network. 2021 , 12, 4697-4713 | |
| 440 | A novel meta-heuristic search algorithm for solving optimization problems: capuchin search algorithm. 2021 , 33, 2515-2547 | 21 |
| 439 | A novel lifetime scheme for enhancing the convergence performance of salp swarm algorithm. 2021 , 25, 181-206 | 12 |
| 438 | A Comprehensive Analysis of Nature-Inspired Meta-Heuristic Techniques for Feature Selection Problem. 2021 , 28, 1103-1127 | 53 |
| 437 | Modified semi-supervised affinity propagation clustering with fuzzy density fruit fly optimization. 2021 , 33, 4695-4712 | 3 |
| 436 | NRSM: node redeployment shrewd mechanism for wireless sensor network. 2021 , 4, 171-183 | 6 |
| 435 | A novel hybrid grey wolf optimizer with min-conflict algorithm for power scheduling problem in a smart home. 2021 , 60, 100793 | 26 |
| 434 | Stochastic multi-objective integrated disassembly-reprocessing-reassembly scheduling via fruit fly optimization algorithm. 2021 , 278, 123364 | 10 |
| 433 | Improvement of evolution process of dandelion algorithm with extreme learning machine for global optimization problems. 2021 , 163, 113803 | 4 |
| 432 | Optimal sizing of autonomous hybrid energy system using supply-demand-based optimization algorithm. 2021 , 45, 605-625 | 12 |
| 431 | Fruit fly optimization algorithm based on a novel fluctuation model and its application in band selection for hyperspectral image. 2021 , 12, 1517-1539 | 3 |
| 430 | Robust optimal utilization with a grid-connected microgrid using EFO-GBDT based controller technique with integrated converters. 2021 , 34, | 6 |
| 429 | A novel F-SVM based on FOA for improving SVM performance. 2021 , 165, 113713 | 8 |
| 428 | A novel algorithm for global optimization: Rat Swarm Optimizer. 2021 , 12, 8457-8482 | 66 |
| 427 | Estimation of monthly and seasonal precipitation: A comparative study using data-driven methods versus hybrid approach. 2021 , 173, 108512 | 3 |

| | | | |
|-----|---|-----|-----|
| 426 | Balancing and sequencing problem of mixed-model U-shaped robotic assembly line: Mathematical model and dragonfly algorithm based approach. 2021 , 98, 106739 | | 5 |
| 425 | Red fox optimization algorithm. 2021 , 166, 114107 | | 73 |
| 424 | Optimizing operating rules for multi-reservoir hydropower generation systems: An adaptive hybrid differential evolution algorithm. 2021 , 167, 774-790 | | 21 |
| 423 | A conceptual and practical comparison of PSO-style optimization algorithms. 2021 , 167, 114430 | | 11 |
| 422 | Survival exploration strategies for Harris Hawks Optimizer. 2021 , 168, 114243 | | 23 |
| 421 | Optimized neural network combined model based on the induced ordered weighted averaging operator for vegetable price forecasting. 2021 , 168, 114232 | | 7 |
| 420 | Preaching-inspired swarm intelligence algorithm and its applications. <i>Knowledge-Based Systems</i> , 2021 , 211, 106552 | 7-3 | 7 |
| 419 | Chaotic random spare ant colony optimization for multi-threshold image segmentation of 2D Kapur entropy. <i>Knowledge-Based Systems</i> , 2021 , 216, 106510 | 7-3 | 111 |
| 418 | Towards augmented kernel extreme learning models for bankruptcy prediction: Algorithmic behavior and comprehensive analysis. 2021 , 430, 185-212 | | 102 |
| 417 | A novel ensemble statistical topic extraction method for scientific publications based on optimization clustering. 2021 , 80, 37-82 | | 4 |
| 416 | Self adaptive fruit fly algorithm for multiple workflow scheduling in cloud computing environment. 2021 , 50, 1704-1730 | | 5 |
| 415 | Coronavirus herd immunity optimizer (CHIO). 2020 , 33, 1-32 | | 62 |
| 414 | Remote sensing data fusion using fruit fly optimization. 2021 , 80, 2951-2973 | | 0 |
| 413 | Pearson correlation coefficient-based pheromone refactoring mechanism for multi-colony ant colony optimization. 2021 , 51, 752-774 | | 10 |
| 412 | Nature Inspired Techniques and Applications in Intrusion Detection Systems: Recent Progress and Updated Perspective. 2021 , 28, 2897-2919 | | 0 |
| 411 | Oppositional Crow Search Algorithm with mutation operator for global optimization and application in designing FOPID controller. 2021 , 12, 463-488 | | 7 |
| 410 | ESA: a hybrid bio-inspired metaheuristic optimization approach for engineering problems. 2021 , 37, 323-353 | | 70 |
| 409 | Underground Coal Mine Target Tracking via Multi-Feature Joint Sparse Representation. 2021 , 09, 118-132 | | |

- 408 Prediction of Strength of Adhesive Bonded Joints Based on Machine Learning Algorithm and Finite Element Analysis. **2021**, 173-190
- 407 An efficient computational method for predicting drug-target interactions using weighted extreme learning machine and speed up robot features. **2021**, 14, 3 1
- 406 An Improved SMA Algorithm for Solving Global Optimization Problems. **2021**, 619-634
- 405 Optimization Based Multi-Objective Weighted Clustering For Remote Monitoring System in WSN. **2021**, 117, 387-404 2
- 404 Hybrid model of support vector regression and fruitfly optimization algorithm for predicting ski-jump spillway scour geometry. **2021**, 15, 272-291 5
- 403 Early Recognition and Discrimination of COVID-19 Severity Using Slime Mould Support Vector Machine for Medical Decision-Making. **2021**, 9, 121996-122015 7
- 402 An oppositional Salp Swarm: Jaya algorithm for thermal design optimization of an Organic Rankine Cycle. **2021**, 3, 1 2
- 401 Evolutionary Algorithms-Based Machine Learning Models. **2021**, 91-111
- 400 Atom search optimization algorithm. **2021**, 13-46
- 399 A quantum-based sine cosine algorithm for solving general systems of nonlinear equations. **2021**, 54, 3939-3990 9
- 398 Grasshopper Optimization Algorithm: Theory, Variants, and Applications. **2021**, 9, 50001-50024 38
- 397 An Improved Beetle Swarm Optimization Algorithm for the Intelligent Navigation Control of Autonomous Sailing Robots. **2021**, 9, 5296-5311 4
- 396 Heterogeneous Distributed Flow Shop Scheduling and Reentrant Hybrid Flow Shop Scheduling in Seamless Steel Tube Manufacturing. **2021**, 78-89
- 395 Structural Damage Identification Based on Improved Fruit Fly Optimization Algorithm. **2021**, 25, 985-1007 5
- 394 Artificial Intelligence Approaches to Estimate the Transport Energy Demand in Turkey. **2021**, 46, 2443-2476 2
- 393 COVID-19 Outbreak Learning Prediction Based on Swarm Intelligence Model Chaotic Fruit Fly Algorithm Followed by Activation Function 2021, 54-63
- 392 Spiral Motion Mode Embedded Grasshopper Optimization Algorithm: Design and Analysis. **2021**, 9, 71104-71132
- 391 A novel statistical approach to numerical and multidisciplinary design optimization problems using pattern search inspired Harris hawks optimizer. **2021**, 33, 7031-7072 10

- 390 A Review of Optimization Techniques for Supplier Selection and Order Allocation. **2021**, 114-129
- 389 LNNLS-KH: A Feature Selection Method for Network Intrusion Detection. **2021**, 2021, 1-22 10
- 388 Soft sensors for screening and detection of pancreatic tumor using nanoimaging and deep learning neural networks. **2021**, 449-463
- 387 An Improved Dragonfly Algorithm Based on Angle Modulation Mechanism for Solving 0/1 Knapsack Problems. **2021**, 83-93 0
- 386 Artificial ecosystem-based optimization algorithm. **2021**, 59-91
- 385 Optimal Operation of Reservoir Power Generation Based on Improved Grey Wolf Algorithm. **2021**, 987-996
- 384 A novel fruit fly optimization algorithm with Levi flight and challenge probability. **2021**, 183, 182-188 1
- 383 Introduction. **2021**, 1-11
- 382 Controller Tuning by Metaheuristics Optimization. **2021**, 11-51 0
- 381 A Hybrid Salp Swarm Algorithm with (beta)-Hill Climbing Algorithm for Text Documents Clustering. **2021**, 129-161 1
- 380 Deep Fusion Feature Extraction for Caries Detection on Dental Panoramic Radiographs. **2021**, 11, 2005 3
- 379 The Text Mining and Classification Analyses of Tumor Based on Twitter. 1-7
- 378 GBUO: The Good, the Bad, and the Ugly Optimizer. **2021**, 11, 2042 4
- 377 Robust Secure Color Image Watermarking Using 4D Hyperchaotic System, DWT, HbD, and SVD Based on Improved FOA Algorithm. **2021**, 2021, 1-17 7
- 376 Artificial lizard search optimization (ALSO): a novel nature-inspired meta-heuristic algorithm. **2021**, 25, 6179-6201 6
- 375 Optimizing multi-supplier multi-item joint replenishment problem for non-instantaneous deteriorating items with quantity discounts. **2021**, 16, e0246035 2
- 374 A bioinformatic variant fruit fly optimizer for tackling optimization problems. *Knowledge-Based Systems*, **2021**, 213, 106704 7:3 15
- 373 A new configuration of autonomous CHP system based on improved version of marine predators algorithm: A case study. **2021**, 31, e12806 9

| | | | |
|-----|---|-----|----|
| 372 | Horse herd optimization algorithm: A nature-inspired algorithm for high-dimensional optimization problems. <i>Knowledge-Based Systems</i> , 2021 , 213, 106711 | 7-3 | 58 |
| 371 | A hybrid model based on general regression neural network and fruit fly optimization algorithm for forecasting and optimizing paclitaxel biosynthesis in <i>Corylus avellana</i> cell culture. 2021 , 17, 13 | | 22 |
| 370 | Knowledge and Behavior-Driven Fruit Fly Optimization Algorithm for Field Service Scheduling Problem with Customer Satisfaction. 2021 , 2021, 1-14 | | 2 |
| 369 | Controller parameters tuning for multi area automatic generation control using modified Grey Wolf optimization algorithm. 2021 , | | |
| 368 | Semisupervised SVM by Hybrid Whale Optimization Algorithm and Its Application in Oil Layer Recognition. 2021 , 2021, 1-19 | | 3 |
| 367 | An improved QPSO algorithm and its application in fuzzy portfolio model with constraints. 2021 , 25, 7695-7706 | | 1 |
| 366 | Metaheuristics: a comprehensive overview and classification along with bibliometric analysis. 2021 , 54, 4237-4316 | | 21 |
| 365 | Chaotic vortex search algorithm: metaheuristic algorithm for feature selection. 1 | | 24 |
| 364 | Scheduling Model of Power System Based on Forecasting Error of Wind Power Plant Output. 2021 , 16, 526-535 | | 1 |
| 363 | Optimal configuration of distributed power sources based on Fruit Fly optimization algorithm. 2021 , 714, 042062 | | |
| 362 | A multi-objective optimization algorithm for feature selection problems. 1 | | 15 |
| 361 | A Novel Quantum Firefly Algorithm for Global Optimization. 2021 , 46, 8741-8759 | | 1 |
| 360 | hSMA-PS: a novel memetic approach for numerical and engineering design challenges. 1 | | 4 |
| 359 | Challenges in evolutionary algorithm to find optimal parameters of SVM: A review. 2021 , | | 2 |
| 358 | Determinants of Tourism Stocks During the COVID-19: Evidence From the Deep Learning Models. 2021 , 9, 675801 | | 0 |
| 357 | Robotic Assembly Sequence Generation Using Improved Fruit Fly Algorithm By Applying Gross And Fine Motion As Fitness Equation. 2021 , 1123, 012053 | | 0 |
| 356 | Heat transfer relation-based optimization algorithm (HTOA). 2021 , 25, 8129-8158 | | 10 |
| 355 | A Novel Hybrid Filter/Wrapper Feature Selection Approach Based on Improved Fruit Fly Optimization Algorithm and Chi-square Test for High Dimensional Microarray Data. 2021 , 16, 63-79 | | 0 |

| | | |
|-----|---|------|
| 354 | Computational Intelligence-Based Financial Crisis Prediction Model Using Feature Subset Selection with Optimal Deep Belief Network. 2021 , 9, 100-115 | 7 |
| 353 | The optimized GRNN based on the FDS-FOA under the hesitant fuzzy environment and its application in air quality index prediction. 2021 , 51, 8365 | 3 |
| 352 | Improved Mushroom Reproduction Optimization for Robot Path Planning. 2021 , | |
| 351 | A novel GPU based intrusion detection system using deep autoencoder with Fruitfly optimization. 2021 , 3, 1 | 4 |
| 350 | A Hybridization of Dragonfly Algorithm Optimization and Angle Modulation Mechanism for 0-1 Knapsack Problems. 2021 , 23, | 5 |
| 349 | A Multi-Objective Enhanced Fruit Fly Optimization (MO-EFOA) Framework for Despeckling SAR Images using DTCWT based Local Adaptive Thresholding. 2021 , 42, 5493-5514 | 1 |
| 348 | A Novel Fruit Fly Optimization Algorithm with Vision Scanning Search and Extensive Learning Mechanism. 2021 , | |
| 347 | An Improved Method for Distributed Localization in WSNs Based on Fruit Fly Optimization Algorithm. 2021 , 55, 287-297 | 4 |
| 346 | A latency-aware task scheduling algorithm for allocating virtual machines in a cost-effective and time-sensitive fog-cloud architecture. 1 | 3 |
| 345 | Pinhole-imaging-based learning butterfly optimization algorithm for global optimization and feature selection. 2021 , 103, 107146 | 21 |
| 344 | A Intrusion Detection Algorithm Based on Improved Slime Mould Algorithm and Weighted Extreme Learning Machine. 2021 , | 0 |
| 343 | Development and application of Quantum Entanglement inspired Particle Swarm Optimization. <i>Knowledge-Based Systems</i> , 2021 , 219, 106859 | 73 5 |
| 342 | An image segmentation method based on a modified local-information weighted intuitionistic Fuzzy C-means clustering and Gold-panning Algorithm. 2021 , 101, 104209 | 3 |
| 341 | Scheduling parallel-batching processing machines problem with learning and deterioration effect in fuzzy environment. 2021 , 40, 12111-12124 | |
| 340 | Memetic Harris Hawks Optimization: Developments and perspectives on project scheduling and QoS-aware web service composition. 2021 , 171, 114529 | 18 |
| 339 | A comprehensive survey of sine cosine algorithm: variants and applications. 2021 , 54, 1-72 | 22 |
| 338 | An Effective Heuristic for Multidepot Low-Carbon Vehicle Routing Problem. 2021 , 2021, 1-10 | |
| 337 | IFFO: An Improved Fruit Fly Optimization Algorithm for Multiple Workflow Scheduling Minimizing Cost and Makespan in Cloud Computing Environments. 2021 , 2021, 1-9 | 2 |

| | | |
|-----|--|----|
| 336 | Pseudo-parallel chaotic self-learning antelope migration algorithm based on mobility models. 1 | 1 |
| 335 | Retrieving Three-Dimensional Large Surface Displacements in Coal Mining Areas by Combining SAR Pixel Offset Measurements with an Improved Mining Subsidence Model. 2021 , 13, 2541 | 7 |
| 334 | Research on Power Consumption Model of Permanent Magnet Direct Drive Belt Conveyor System Based on Fruit Fly Optimization Algorithm-Generalized Regression Neural Network-Particle Swarm Optimization. 2021 , 16, 941-948 | |
| 333 | Forecasting energy consumption of long-distance oil products pipeline based on improved fruit fly optimization algorithm and support vector regression. 2021 , 224, 120153 | 13 |
| 332 | A Variable-Length Chromosome Genetic Algorithm for Time-Based Sensor Network Schedule Optimization. 2021 , 21, | 2 |
| 331 | A comprehensive comparison of recent developed meta-heuristic algorithms for streamflow time series forecasting problem. 2021 , 105, 107282 | 16 |
| 330 | A cooperative approach for combining particle swarm optimization and differential evolution algorithms to solve single-objective optimization problems. 1 | 4 |
| 329 | Edge user allocation by FOA in edge computing environment. 2021 , 53, 101390 | 2 |
| 328 | Photometric redshifts estimation for galaxies by using FOABP-RF. 2021 , 506, 5923-5934 | 0 |
| 327 | A New Estimation Method of the PID Controller In Automatic Train Operation Systems. 2021 , 1972, 012037 | |
| 326 | A new method for displacement prediction of step-like landslides based on VMD-FOA-SVR model. 2021 , 80, 1 | 4 |
| 325 | Aircraft Energy Management System Using Chaos Red Fox Optimization Algorithm. 1 | 0 |
| 324 | An effective Parallel Integrated Neural Network System for industrial data prediction. 2021 , 107, 107397 | 4 |
| 323 | An Algorithm for Solving Robot Inverse Kinematics Based on FOA Optimized BP Neural Network. 2021 , 11, 7129 | 7 |
| 322 | CORPORATE BANKRUPTCY AND INSOLVENCY PREDICTION MODEL. 2021 , 27, 1039-1056 | 3 |
| 321 | Underwater estimation of audio signal prediction using fruit fly algorithm and hybrid wavelet neural network. 1 | 1 |
| 320 | Optimizing design for continuous conversion of glycerol to 1,3-propanediol using discrete-valued optimal control. 2021 , 104, 126-134 | 1 |
| 319 | An Improved Hybrid Aquila Optimizer and Harris Hawks Algorithm for Solving Industrial Engineering Optimization Problems. 2021 , 9, 1551 | 27 |

| | | | |
|-----|--|-----|----|
| 318 | Opposition-based learning grey wolf optimizer for global optimization. <i>Knowledge-Based Systems</i> , 2021 , 226, 107139 | 7.3 | 18 |
| 317 | Hybrid Fruit-Fly Optimization Algorithm with K-Means for Text Document Clustering. 2021 , 9, 1929 | | 38 |
| 316 | Optimized droop controller based energy management for stand-alone micro-grid using hybrid monarch butterfly and sine-cosine algorithm. 2021 , 46, 101310 | | 2 |
| 315 | An adaptive hybrid atom search optimization with particle swarm optimization and its application to optimal no-load PID design of hydro-turbine governor. 2021 , 8, 1204-1233 | | 6 |
| 314 | Adaptive obstacle avoidance in path planning of collaborative robots for dynamic manufacturing. 1 | | 1 |
| 313 | Improved Manta Ray Foraging Optimization for Parameters Identification of Magnetorheological Dampers. 2021 , 9, 2230 | | 3 |
| 312 | Research Progress of Oilfield Development Index Prediction Based on Artificial Neural Networks. 2021 , 14, 5844 | | 0 |
| 311 | A data-driven corrosion prediction model to support digitization of subsea operations. 2021 , 153, 413-421 | | 8 |
| 310 | Model Construction of Enterprise Financial Early Warning Based on Quantum FOA-SVR. 2021 , 2021, 1-8 | | 1 |
| 309 | The Application of Adaptive Operation Decision Technology and Optimization Algorithm Model of Smart Supply Chain Oriented to the Internet of Things. 1-12 | | 0 |
| 308 | Cooperative Multi-robot Target Searching and Tracking Using Velocity Inspired Robotic Fruit Fly Algorithm. 2021 , 2, 1 | | 1 |
| 307 | A new interval prediction method for displacement behavior of concrete dams based on gradient boosted quantile regression. e2859 | | 0 |
| 306 | Forecasting sales using online review and search engine data: A method based on PCADSFOABPNN. 2021 , | | 0 |
| 305 | Nonlinear-based Chaotic Harris Hawks Optimizer: Algorithm and Internet of Vehicles application. 2021 , 109, 107574 | | 10 |
| 304 | Object pose estimation for robot loading in accommodation space using alpha-shape algorithm. 2021 , 1-10 | | |
| 303 | Review of Metaheuristics Inspired from the Animal Kingdom. 2021 , 9, 2335 | | 5 |
| 302 | Optimal Deployment of Phased Array Antennas for RFID Network Planning Based on an Improved Chicken Swarm Optimization. 2021 , 8, 14572-14588 | | 1 |
| 301 | A Review on Representative Swarm Intelligence Algorithms for Solving Optimization Problems: Applications and Trends. 2021 , 8, 1627-1643 | | 64 |

| | | |
|-----|--|----|
| 300 | An Enhanced Social Spider Colony Optimization for Global Optimization. 2022 , 775-793 | |
| 299 | Damage identification of steel-concrete composite beams based on modal strain energy changes through general regression neural network. 2021 , 244, 112824 | 9 |
| 298 | Review of meta-heuristic algorithms for wind power prediction: Methodologies, applications and challenges. 2021 , 301, 117446 | 16 |
| 297 | A hierarchical guidance strategy assisted fruit fly optimization algorithm with cooperative learning mechanism. 2021 , 183, 115342 | 4 |
| 296 | Predicting the seismic response of the short structures by considering the Whale Optimization Algorithm. 2021 , 7, 4071-4084 | 2 |
| 295 | Boosting quantum rotation gate embedded slime mould algorithm. 2021 , 181, 115082 | 20 |
| 294 | Artificial intelligence and machine learning in finance: Identifying foundations, themes, and research clusters from bibliometric analysis. 2021 , 32, 100577 | 38 |
| 293 | Fault diagnosis of electric rudder system using PSOFOA-BP neural network. 2021 , 186, 110058 | 5 |
| 292 | Design of Neural Network Based Wind Speed Prediction Model Using GWO. 2022 , 40, 593-606 | 1 |
| 291 | Water Strider Optimization Algorithm and Its Enhancement. 2021 , 783-848 | |
| 290 | Data Fusion in Redundant Inertial Measurement Unit Using a Fruit-Fly-Optimized Weighted Least Squares Algorithm. 2021 , 1-1 | 2 |
| 289 | The Solar System Algorithm: A Novel Metaheuristic Method for Global Optimization. 2021 , 9, 4542-4565 | 10 |
| 288 | A multiobjective multiperiod mean-semientropy-skewness model for uncertain portfolio selection. 2021 , 51, 5233-5258 | 3 |
| 287 | Chaotic Arc Adaptive Grasshopper Optimization. 2021 , 9, 17672-17706 | 4 |
| 286 | Toward the Energy-Saving Optimization of WLAN Deployment in Real 3-D Environment: A Hybrid Swarm Intelligent Method. 2021 , 1-12 | 8 |
| 285 | Metaheuristic Algorithms on Feature Selection: A Survey of One Decade of Research (2009-2019). 2021 , 9, 26766-26791 | 58 |
| 284 | Modified Stacked Auto-encoder Using Adaptive Morlet Wavelet for Intelligent Fault Diagnosis of Rotating Machinery. 2021 , 1-1 | 36 |
| 283 | Control Engineering from Classical to Intelligent Control Theory An Overview. 2019 , 1-30 | 5 |

| | | |
|-----|--|----|
| 282 | Grouped Fruit-Fly Optimization Algorithm for the No-Wait Lot Streaming Flow Shop Scheduling. 2014 , 664-674 | 6 |
| 281 | Clustering Algorithm Based on Fruit Fly Optimization. 2015 , 408-419 | 3 |
| 280 | Enhanced Genetic Algorithm Applied for Global Optimization. 2015 , 198-205 | 2 |
| 279 | Aspects of Structure Selection and Parameters Tuning of Control Systems Using Hybrid Genetic-Fruit Fly Algorithm. 2016 , 101-110 | 1 |
| 278 | Optimized Vehicle Dynamics Virtual Sensing Using Metaheuristic Optimization and Unscented Kalman Filter. 2019 , 275-290 | 1 |
| 277 | Improved Prediction Accuracy with Reduced Feature Set Using Novel Binary Gravitational Search Optimization. 2015 , 177-183 | 2 |
| 276 | Orthogonal learning harmonizing mutation-based fruit fly-inspired optimizers. 2020 , 86, 368-383 | 11 |
| 275 | A novel bat algorithm with double mutation operators and its application to low-velocity impact localization problem. 2020 , 90, 103505 | 14 |
| 274 | The application of PROMETHEE multi-criteria decision aid in financial decision making: Case of distress prediction models evaluation. 2020 , 159, 113438 | 18 |
| 273 | Exploratory differential ant lion-based optimization. 2020 , 159, 113548 | 14 |
| 272 | Memetic reconstruction algorithm for the ECT. 2018 , 12, 917-924 | 3 |
| 271 | A fault diagnosis model based on singular value manifold features, optimized SVMs and multi-sensor information fusion. 2020 , 31, 095002 | 11 |
| 270 | SVR Based on FOA and Its Application in Traffic Flow Predication. 2013 , 02, 6-9 | 5 |
| 269 | Magnetorheological elastomer base isolator for earthquake response mitigation on building structures: modeling and second-order sliding mode control. 2016 , 11, 943-966 | 23 |
| 268 | Multi-swarm fruit fly optimization algorithm for structural damage identification. 2015 , 56, 409-422 | 7 |
| 267 | Forecasting and optimizing Agrobacterium-mediated genetic transformation via ensemble model-fruit fly optimization algorithm: A data mining approach using chrysanthemum databases. 2020 , 15, e0239901 | 11 |
| 266 | A Modified Binary Pigeon-Inspired Algorithm for Solving the Multi-dimensional Knapsack Problem. 2020 , 30, 90-103 | 2 |
| 265 | Parameters Optimization of SVM Based on Improved FOA and Its Application in Fault Diagnosis. 2015 , 10, 1301-1309 | 3 |

| | | |
|-----|--|---|
| 264 | Improved PSO Algorithm Based on Exponential Center Symmetric Inertia Weight Function and Its Application in Infrared Image Enhancement. 2020 , 12, 248 | 6 |
| 263 | A Hybrid Optimization Algorithm for Single and Multi-Objective Optimization Problems. 2017 , 491-521 | 4 |
| 262 | Parameter Analysis on Fruit Fly Optimization Algorithm. 2014 , 02, 137-141 | 8 |
| 261 | Influencing factors and prediction of carbon dioxide emissions using factor analysis and optimized least squares support vector machine. 2017 , 22, 175-185 | 5 |
| 260 | Research on Parameters Optimization of SVM Based on Improved Fruit Fly Optimization Algorithm. 2016 , 8, 500-505 | 1 |
| 259 | Regression Analysis Models Under the Hesitant Fuzzy Environment. 2021 , 83-124 | |
| 258 | Stochastic Heuristic Algorithms for Multi-UAV Cooperative Path Planning. 2021 , | 0 |
| 257 | Multi-step network traffic prediction using echo state network with a selective error compensation strategy. 014233122110502 | 1 |
| 256 | Success history intelligent optimizer. 2022 , 78, 6461 | 0 |
| 255 | Rank-driven salp swarm algorithm with orthogonal opposition-based learning for global optimization. 2021 , 1-43 | 2 |
| 254 | Feasibility of Hybrid PSO-ANN Model for Identifying Soybean Diseases. 2021 , 15, 0-0 | 1 |
| 253 | A Heuristic Projection Pursuit Method Based on a Connection Cloud Model and Set Pair Analysis for Evaluation of Slope Stability. 2021 , 13, 2016 | 1 |
| 252 | The Archerfish Hunting Optimizer: A Novel Metaheuristic Algorithm for Global Optimization. 1 | 1 |
| 251 | Multi-ant colony optimization algorithm based on hybrid recommendation mechanism. 1 | 2 |
| 250 | PARAMETER SELECTION USING FRUIT FLY OPTIMIZATION. 2016 , 3, 29 | |
| 249 | Ant Colony Optimization: Approach for an Obstacle. 2016 , 16, 58-67 | 0 |
| 248 | Improving the Predictability of GRNN Using Fruit Fly Optimization and PCA: The Nile Flood Forecasting. 2017 , 310-319 | |
| 247 | The Insects of Innovative Computational Intelligence. 2017 , 177-186 | |

- 246 The Insects of Nature-Inspired Computational Intelligence. **2017**, 398-428
- 245 3D-FOAdis: An Improved Fruit Fly Optimization for Function Optimization. **2017**, 618-625
- 244 Multi-step prediction for the network traffic based on echo state network optimized by quantum-behaved fruit fly optimization algorithm. **2017**, 5
- 243 Design of Gear Reducer Based on FOA Optimization Algorithm. **2018**, 240-247 1
- 242 Summary of key technologies of combat intelligent unmanned aerial vehicle. **2018**,
- 241 The Research of Home Energy Management Strategy Based on a New Meta-Heuristic Algorithm. **2018**, 6, 407-414
- 240 Modeling and optimization of urban rail transit scheduling with adaptive fruit fly optimization algorithm. **2019**, 17, 888-896 1
- 239 Time/Space Separation Based FOA-Elman Modeling for Non-Linear Distributed Parameter Processes Spatial-Temporal Modeling. **2019**, 09, 328-338
- 238 Categorical Data Clustering Method Based on Improved Fruit Fly Optimization Algorithm. **2019**, 736-744
- 237   **2019**, 95-137
- 236 Parameter Estimation for Chaotic Systems Using the Fruit Fly Optimization Algorithm. **2020**, 80-90 0
- 235 Improved Neural Network Control Approach for a Humanoid Arm. **2019**, 141,
- 234 Role of AI and Bio-Inspired Computing in Decision Making. **2020**, 115-136
- 233 A Performance-Aware Selection Strategy for Cloud-based Video Services with Micro-Service Architecture. **2019**,
- 232 Hybridizing Meta-heuristic Algorithms with CMM and QCM for SVR Parameters Determination. **2020**, 69-133 0
- 231 Water Quality Evolution Mechanism Modeling and Estimation Based on Fruit Fly Optimization Algorithm and Particle Filter. **2020**,
- 230 An optimized support vector regression for prediction of bearing degradation. **2021**, 108008 0
- 229 An improved particle swarm optimization algorithm and its application to solve constrained optimization problems. **2020**,

| | | |
|-----|--|----|
| 228 | Fruit Fly Optimization Algorithm for Intelligent IoT Applications. 2020 , 287-309 | 2 |
| 227 | Swarm IntelligenceBased Energy-Efficient Clustering Algorithms for WSN: Overview of Algorithms, Analysis, and Applications. 2020 , 207-261 | 3 |
| 226 | Optimized Stacked Autoencoder for IoT Enabled Financial Crisis Prediction Model. 2022 , 71, 1079-1094 | 3 |
| 225 | Advanced strategies on update mechanism of Sine Cosine Optimization Algorithm for feature selection in classification problems. 2022 , 107, 104506 | 3 |
| 224 | Acoustic emission sources localization of laser cladding metallic panels using improved fruit fly optimization algorithm-based independent variational mode decomposition. 2022 , 166, 108514 | 0 |
| 223 | RNA secondary structure prediction using Fruit Fly Optimization Algorithm. 2020 , | |
| 222 | Fruit-Fly Optimization Algorithm for Disability-Specific Teaching Based on Interval Trapezoidal Type-2 Fuzzy Numbers. 2020 , 9, 35-63 | |
| 221 | A Fruit Fly Optimization-Based Extreme Learning Machine for Biomedical Data Classification. 2021 , 145-154 | |
| 220 | A Survey on Clustering Algorithms Based on Bioinspired Optimization Techniques. 2021 , 443-452 | |
| 219 | Cloud Application For Sheet Materials Cutting Optimization. 2020 , | |
| 218 | Artificial hummingbird algorithm: A new bio-inspired optimizer with its engineering applications. 2022 , 388, 114194 | 60 |
| 217 | Hybrid collaborative multi-objective fruit fly optimization algorithm for scheduling workflow in cloud environment. 2022 , 68, 101008 | 3 |
| 216 | Solving interval many-objective optimization problems by combination of NSGA-III and a local fruit fly optimization algorithm. 2022 , 114, 108096 | 1 |
| 215 | A hybrid wind driven-based fruit fly optimization algorithm for identifying the parameters of a double-diode photovoltaic cell model considering degradation effects. 2022 , 50, 101685 | 3 |
| 214 | Chaotic Time Series Prediction using Three-Dimensional FOA and Echo State Network. 2021 , | 0 |
| 213 | A novel multi-objective optimization algorithm for Pareto design of a fuzzy full state feedback linearization controller applied on a ball and wheel system. 014233122110561 | 0 |
| 212 | A survey, taxonomy and progress evaluation of three decades of swarm optimisation. 1 | 0 |
| 211 | Artificial Neural Networks Hidden Unit and Weight Connection Optimization by Quasi-Refection-Based Learning Artificial Bee Colony Algorithm. 2021 , 9, 169135-169155 | 24 |

| | | |
|-----|---|---|
| 210 | Differential evolution-assisted salp swarm algorithm with chaotic structure for real-world problems.. 2022 , 1-35 | 4 |
| 209 | Trees Social Relations Optimization Algorithm: A new Swarm-Based metaheuristic technique to solve continuous and discrete optimization problems. 2022 , 194, 629-664 | 4 |
| 208 | New Strategies Based on Improved Fruit Fly Optimization Algorithm for Unknown Indoor Odor Source Location. 2020 , | |
| 207 | Enhanced grey wolf optimization algorithm for group decision making in unmanned clusters. 2020 , | 1 |
| 206 | Remaining Useful Life Prediction of Lithium-ion Batteries with Fused Features and Multi-kernel Gaussian Process Regression. 2021 , | 1 |
| 205 | A Hybrid Fruit Fly ELM Framework for Stock Index Price Movement Prediction. 2021 , | |
| 204 | Harris hawks optimization algorithm based on elite fractional mutation for data clustering. 1 | 1 |
| 203 | An Extreme Learning Machine Based Adaptive VISMA for Stability Enhancement of Renewable Rich Power Systems. 2022 , 11, 247 | 1 |
| 202 | Application of artificial intelligence based on synchrosqueezed wavelet transform and improved deep extreme learning machine in water quality prediction.. 2022 , 1 | 1 |
| 201 | Demand forecasting model of coal logistics based on drosophila-grey neural network. 1 | |
| 200 | Droop control optimization strategy for parallel inverters in a microgrid based on an improved three-partition fruit fly algorithm. 2022 , 1-1 | |
| 199 | Metaheuristic optimization techniques. 2022 , 27-68 | 1 |
| 198 | OUP accepted manuscript. | 1 |
| 197 | Capacitated multi-objective disassembly scheduling with fuzzy processing time via a fruit fly optimization algorithm.. 2022 , 1 | 2 |
| 196 | FSCAM: CAM-Based Feature Selection for Clustering scRNA-seq.. 2022 , 1 | |
| 195 | Data Mining and Deep Learning for Predicting the Displacement of "Step-like" Landslides.. 2022 , 22, | 2 |
| 194 | Binary Fruit Fly Swarm Algorithms for the Set Covering Problem. 2022 , 71, 4295-4318 | |
| 193 | Nature-Inspired Feature Selection Algorithms: A Study. 2022 , 739-748 | |

| | | | |
|-----|---|-----|---|
| 192 | An Eigenvalues-Based Covariance Matrix Bootstrap Model Integrated With Support Vector Machines for Multichannel EEG Signals Analysis.. 2021 , 15, 808339 | | |
| 191 | Water quality evolution mechanism modeling and health risk assessment based on stochastic hybrid dynamic systems. 2022 , 193, 116404 | | 9 |
| 190 | An Effective Data-Driven Model for Predicting Energy Consumption of Long-Distance Oil Pipelines. 2022 , 13, | | 2 |
| 189 | Three-Partition Multistrategy Adaptive Fruit Fly Optimization Algorithm for Microgrid Droop Control. 2022 , 2022, 1-20 | | 1 |
| 188 | Many-objective optimization based path planning of multiple UAVs in oilfield inspection. 1 | | 0 |
| 187 | Improved exponential model for thermal error modeling of machine-tool spindle based on fruit fly optimization algorithm. 095440622110662 | | |
| 186 | An effective metaheuristic with a differential flight strategy for the distributed permutation flowshop scheduling problem with sequence-dependent setup times. <i>Knowledge-Based Systems</i> , 2022 , 108328 | 7.3 | 1 |
| 185 | The Gaussian Mutational Barebone Dragonfly Algorithm: From Design to Analysis. 2022 , 14, 331 | | 0 |
| 184 | Shared seagull optimization algorithm with mutation operators for global optimization. 2021 , 11, 125217 | | 2 |
| 183 | Optimal reactive power dispatch using a novel optimization algorithm. 2021 , 8, | | 2 |
| 182 | Wavelet Threshold Image Filtering Based on Improved Fruit Fly Optimization Algorithm. 2022 , | | |
| 181 | Feature Selection Algorithm Based on Discernibility Matrix and Fruit Fly Optimization. 2022 , 100-115 | | |
| 180 | SSO: A Hybrid Swarm Intelligence Optimization Algorithm. 2022 , 879-889 | | |
| 179 | Survey of UAV Path Planning Based on Swarm Intelligence Optimization. 2022 , 318-326 | | 1 |
| 178 | Hybrid Fruit Fly Optimization for EHR Applications in Cloud Environments for Load Balancing Optimization. 2022 , 1-7 | | |
| 177 | Bat Particle Swarm Optimization Modeling Based on Optimization of Knowledge Transfer Time in Big Data Environment. 2022 , | | |
| 176 | A novel Fruit Fly Optimization Algorithm with quasi-affine transformation evolutionary for numerical optimization and application. 2022 , 18, 155014772110730 | | 0 |
| 175 | Swarm Optimization for Energy-Based Acoustic Source Localization: A Comprehensive Study.. 2022 , 22, | | 1 |

| | | | |
|-----|---|-----|----|
| 174 | Anti-coronavirus optimization algorithm.. 2022 , 1-33 | | 0 |
| 173 | A multipopulation cooperative coevolutionary whale optimization algorithm with a two-stage orthogonal learning mechanism. <i>Knowledge-Based Systems</i> , 2022 , 108664 | 7.3 | 0 |
| 172 | Multivariate Adaptive Step Fruit Fly Optimization Algorithm Optimized Generalized Regression Neural Network for Short-Term Power Load Forecasting. 2022 , 10, | | 2 |
| 171 | Breast Cancer Recognition Using Saliency-Based Spiking Neural Network. 2022 , 2022, 1-17 | | |
| 170 | A hybrid improved BRO algorithm and its application in inverse kinematics of 7R 6DOF robot. 2022 , 14, 168781322210851 | | 1 |
| 169 | Distribution Network Reconfiguration Method based on Adaptive Multi Population Fruit Fly. 2022 , 70, 31-38 | | |
| 168 | A novel arithmetic optimization algorithm based on chaotic maps for global optimization. 1 | | 1 |
| 167 | Web Service Composition Optimization with the Improved Fireworks Algorithm. 2022 , 2022, 1-13 | | |
| 166 | Prediction of groundwater-level using novel SVM-ALO, SVM-FOA, and SVM-FFA algorithms at Purba-Medinipur, India. 2022 , 15, 1 | | 0 |
| 165 | Optimized deep residual network system for diagnosing tomato pests. 2022 , 195, 106805 | | 2 |
| 164 | Cloud-edge orchestration-based bi-level autonomous process control for mass individualization of rapid printed circuit boards prototyping services. 2022 , 63, 143-161 | | 2 |
| 163 | A Novel Quasi-oppositional Chaotic Harris Hawk Optimization Algorithm for Optimal Siting and Sizing of Distributed Generation in Radial Distribution System. 1 | | |
| 162 | White Shark Optimizer: A novel bio-inspired meta-heuristic algorithm for global optimization problems. <i>Knowledge-Based Systems</i> , 2022 , 243, 108457 | 7.3 | 16 |
| 161 | A dynamic stochastic search algorithm for high-dimensional optimization problems and its application to feature selection. <i>Knowledge-Based Systems</i> , 2022 , 244, 108517 | 7.3 | 0 |
| 160 | Binary Artificial Algae Algorithm for feature selection. 2022 , 120, 108630 | | 1 |
| 159 | Chaotic simulated annealing multi-verse optimization enhanced kernel extreme learning machine for medical diagnosis.. 2022 , 144, 105356 | | 0 |
| 158 | GGWO: Gaze cues learning-based grey wolf optimizer and its applications for solving engineering problems. 2022 , 61, 101636 | | 11 |
| 157 | Fast stochastic configuration network based on an improved sparrow search algorithm for fire flame recognition. <i>Knowledge-Based Systems</i> , 2022 , 245, 108626 | 7.3 | 3 |

- 156 A discrete learning fruit fly algorithm based on knowledge for the distributed no-wait flow shop scheduling with due windows. **2022**, 198, 116921 3
- 155 Research on Image Reconstruction Algorithm Based on FOA Optimization for Detecting Aluminum Plate Flaw. **2021**,
- 154 Informative gene identification for Single-Cell RNA-Seq Data with Mutual Information based Firefly Algorithm. **2021**,
- 153 A Novel Approach of ECG Signal Enhancement Using Adaptive Filter Based on Whale Optimization Algorithm. **2021**, 14, 1895-1903 0
- 152 Application of AMOGWO in Multi-Objective Optimal Allocation of Water Resources in Handan, China. **2022**, 14, 63
- 151 Development of a hybrid artificial intelligence model to predict the uniaxial compressive strength of a new aseismic layer made of rubber-sand concrete. 1-18 3
- 150 Fruit fly Optimization with Deep Learning Based Reactive Power Optimization Model for Distributed Systems. **2022**, 0
- 149 Estimation of the methanol loss in the gas hydrate prevention unit using the artificial neural networks: Investigating the effect of training algorithm on the model accuracy.
- 148 Quantum Entanglement inspired Grey Wolf optimization algorithm and its application. 0
- 147 Sand Cat swarm optimization: a nature-inspired algorithm to solve global optimization problems. 1 8
- 146 Multi-objective optimization of injection molded parts with insert based on IFOA-GRNN-NSGA-II. **2022**,
- 145 Threshold image segmentation based on improved sparrow search algorithm.. **2022**, 1-34
- 144 UPQC Implementation of Voltage Sag Mitigation Uses Fruit Fly Optimization. **2022**, 11, 66-72
- 143 An enhanced hybrid arithmetic optimization algorithm for engineering applications. **2022**, 394, 114901 2
- 142 Chaotic Fruit Fly Algorithm for Solving Engineering Design Problems. **2022**, 2022, 1-19 0
- 141 An effective metaheuristic for the robust distributed flowshop scheduling problem. **2022**, 2258, 012029
- 140 Differential Human Learning Optimization Algorithm.. **2022**, 2022, 5699472
- 139 Increased Energy Harvesting from shaded PV power plant using a fast converging Fruit fly Algorithm. 0

| | | |
|-----|--|---|
| 138 | Boosted Harris Hawks gravitational force algorithm for global optimization and industrial engineering problems. | 0 |
| 137 | A ChaosInfused MothFlame Optimizer. | 0 |
| 136 | Novel bat algorithm for QoS-aware services composition in large scale internet of things. | 0 |
| 135 | Machine learning discovery of a new cobalt free multi-principal-element alloy with excellent mechanical properties. 2022 , 845, 143198 | 0 |
| 134 | Improved whale optimization algorithm and its application in vehicle structural crashworthiness. 1-15 | 0 |
| 133 | Trajectory tracking of differential drive mobile robots using fractional-order proportional-integral-derivative controller design tuned by an enhanced fruit fly optimization. 002029402210921 | 0 |
| 132 | CoalRock Cutting Sound Denoising Based on Complete Ensemble Empirical Mode Decomposition with Adaptive Noise and an improved Fruit Fly Optimization Algorithm. 2022 , 10, 412 | 0 |
| 131 | Deep Learning Enabled Microarray Gene Expression Classification for Data Science Applications. 2022 , 73, 4277-4290 | 0 |
| 130 | The Effect of Heuristic Methods Toward Performance of Health Data Analysis. 2022 , 147-171 | 0 |
| 129 | A Hybrid Optimization Algorithm for Water Volume Adjustment Problem in District Heating Systems. 2022 , 15, | 0 |
| 128 | Six Novel Hybrid Extreme Learning MachineSwarm Intelligence Optimization (ELMSIO) Models for Predicting Backbreak in Open-Pit Blasting. | 4 |
| 127 | Recent Advances in Harris Hawks Optimization: A Comparative Study and Applications. 2022 , 11, 1919 | 7 |
| 126 | Computer Based Diagnosis of Some Chronic Diseases: A Medical Journey of the Last Two Decades. | 1 |
| 125 | A Prediction Method for Floor Water Inrush Based on Chaotic Fruit Fly Optimization AlgorithmGeneralized Regression Neural Network. 2022 , 2022, 1-11 | 0 |
| 124 | Ameliorated Follow The Leader: Algorithm and Application to Truss Design Problem. 2022 , 42, 181-204 | 2 |
| 123 | A binary dandelion algorithm using seeding and chaos population strategies for feature selection. 2022 , 125, 109166 | 0 |
| 122 | Prediction of Sediment Load Through Novel SVM-FOA Approach: A Case Study. 2022 , 291-301 | 0 |
| 121 | Load Forecasting Techniques for Power System: Research Challenges and Survey. 2022 , 10, 71054-71090 | 7 |

| | | |
|-----|---|---|
| 120 | A Hybrid Framework Model Based on Wavelet Neural Network with Improved Fruit Fly Optimization Algorithm for Traffic Flow Prediction. 2022 , 14, 1333 | 0 |
| 119 | The cheetah optimizer: a nature-inspired metaheuristic algorithm for large-scale optimization problems. 2022 , 12, | 2 |
| 118 | Self-adaptive salp swarm algorithm for optimization problems. | 0 |
| 117 | Coverage optimization of soil moisture wireless sensor networks based on adaptive Cauchy variant butterfly optimization algorithm. 2022 , 12, | 1 |
| 116 | Multi-strategies Boosted Mutative Crow Search Algorithm for Global Tasks: Cases of Continuous and Discrete Optimization. | 0 |
| 115 | Reversed Pigeon-Inspired Optimization Algorithm for Unmanned Aerial Vehicle Swarm Cooperative Autonomous Formation Reconfiguration. 2022 , | 0 |
| 114 | Special Relativity Search: A novel metaheuristic method based on special relativity physics. 2022 , 109484 | 3 |
| 113 | Position Deployment Optimization of Maneuvering Conventional Missile Based on Improved Whale Optimization Algorithm. 2022 , 2022, 1-16 | 1 |
| 112 | Movie Box Office Prediction Based on IFOA-GRNN. 2022 , 2022, 1-10 | |
| 111 | Multi-strategy boosted marine predators algorithm for optimizing approximate developable surface. 2022 , 109615 | 0 |
| 110 | Optimum deployment of sensor nodes in wireless sensor network using hybrid fruit fly optimization algorithm and bat optimization algorithm for 3D Environment. | |
| 109 | Whale Optimization End-point Control Model for 260 tons BOF Steelmaking. 2022 , 62, 1684-1693 | |
| 108 | A new hybrid optimization technique based on antlion and grasshopper optimization algorithms. | |
| 107 | Real Estate Market-Based Optimization Algorithm (REMARK): a market-inspired metaheuristic optimization algorithm based on the law of supply and demand. | |
| 106 | Mining Subsidence Prediction Model and Parameters Inversion in Mountainous Areas. 2022 , 14, 9445 | 0 |
| 105 | Soft Hunting Algorithm for Auto-Tuning Software Reliability Growth Models. 2022 , 2022, 1-10 | |
| 104 | Application of job shop scheduling approach in green patient flow optimization using a hybrid swarm intelligence. 2022 , 172, 108603 | 0 |
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| | | |
|-----|--|---|
| 102 | Image Denoising Using a Deep Auto-encoder Approach Based on Beetle Antennae Search Algorithm. 2022 , 75-84 | 0 |
| 101 | A Multi-strategy Improved Fireworks Optimization Algorithm. 2022 , 97-111 | 0 |
| 100 | Improved African Vulture Optimization Algorithm Based on Quasi-Oppositional Differential Evolution Operator. 2022 , 10, 95197-95218 | 3 |
| 99 | Application of Improved Fruit Fly Optimization Algorithm in Three Bar Truss. 2022 , 785-801 | 0 |
| 98 | Multiclass feature selection with metaheuristic optimization algorithms: a review. | 2 |
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| 95 | Locality sensitive hashing-aware fruit fly optimization algorithm and its application in edge server placement. 2022 , 11, | 0 |
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| 93 | Wild Geese Migration Optimization Algorithm: A New Meta-Heuristic Algorithm for Solving Inverse Kinematics of Robot. 2022 , 2022, 1-38 | 0 |
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| 91 | Improved Cuckoo Search Algorithm with Escape Mechanism. 2023 , 301-309 | 0 |
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- 84 FineAP: Fine-grained Access Point Deployment Strategy for 60GHz Millimeter-wave Wireless Networks. **2022**, 1-1 ○
- 83 Flood forecasting using novel ANFIS-WOA approach in Mahanadi river basin, India. **2022**, 663-682 ○
- 82 Application of Grey Wolf Optimization Algorithm in Tuning Controller Parameters of Hypersonic Vehicle. **2022**, ○
- 81 Lemurs Optimizer: A New Metaheuristic Algorithm for Global Optimization. **2022**, 12, 10057 ○
- 80 Boosting Slime Mould Algorithm for High-Dimensional Gene Data Mining: Diversity Analysis and Feature Selection. **2022**, 2022, 1-27 ○
- 79 Particle Swarm Optimization with a Simplex Strategy to Avoid Getting Stuck on Local Optimum. **2022**, 1-40 ○
- 78 An Adaptive Sinusoidal Disturbance Strategy Sparrow Search Algorithm and Its Application. ○
- 77 Novel chaotic oppositional fruit fly optimization algorithm for feature selection applied on COVID 19 patients health prediction. **2022**, 17, e0275727 ○
- 76 A Systematic Review on Particle Swarm Optimization Towards Target Search in The Swarm Robotics Domain. ○
- 75 An energy efficiency perceptive on MIMO-OFDM systems using hybrid fruit fly-based salp swarm optimization technique. ○
- 74 A horizontal and vertical crossover cuckoo search: Optimizing performance for the engineering problems. 1
- 73 Homonuclear Molecules Optimization (HMO) meta-heuristic algorithm. **2022**, 258, 110032 ○
- 72 Research on Teaching Effect Evaluation Model of Single Chip Microcomputer Principle Based on Fruit Fly Optimization Algorithm. **2022**, ○
- 71 Termite life cycle optimizer. **2022**, 119211 ○
- 70 An Adaptive Sinusoidal-Disturbance-Strategy Sparrow Search Algorithm and Its Application. **2022**, 22, 8787 ○
- 69 An improved whale algorithm based on multi-strategy competition mechanism. ○
- 68 A novel UAV path planning approach: Heuristic crossing search and rescue optimization algorithm. **2022**, 119243 ○
- 67 A parallel integrated learning technique of improved particle swarm optimization and BP neural network and its application. **2022**, 12, ○

| | | |
|----|---|---|
| 66 | Employing Quantum Fruit Fly Optimization Algorithm for Solving Three-Dimensional Chaotic Equations. 2022 , 10, 4147 | 0 |
| 65 | Improved salp swarm algorithm based on gravitational search and multi-leader search strategies. 2022 , 8, 5099-5123 | 0 |
| 64 | A feature-level degradation measurement method for composite health index construction and trend prediction modeling. 2023 , 206, 112324 | 0 |
| 63 | Multi-objective optimization of seeding performance of a pneumatic precision seed metering device using integrated ANN-MOPSO approach. 2023 , 117, 105559 | 0 |
| 62 | A hybrid algorithm based on grey wolf optimizer and differential evolution for UAV path planning. 2023 , 215, 119327 | 1 |
| 61 | Self-Calibration Method for the Errors of Dual-Axis Turntable in Redundant Rotational Inertial Navigation System. 2022 , 1-1 | 0 |
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| 58 | Advances in Coyote Optimization Algorithm: Variants and Applications. 2023 , 99-113 | 0 |
| 57 | Boosting Whale Optimizer with Quasi-Oppositional Learning and Gaussian Barebone for Feature Selection and COVID-19 Image Segmentation. | 2 |
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| 51 | Photovoltaic Models Parameter Extraction Using New Artificial Parameterless Optimization Algorithm. 2022 , 10, 4617 | 0 |
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| 49 | A novel Weighted Adaptive Aquila Optimizer technique for solving the Optimal Reactive Power Dispatch problem. | 0 |

| | | |
|----|---|---|
| 48 | A new machine learning model for predicting severity prognosis in patients with pulmonary embolism: Study protocol from Wenzhou, China. 16, | 0 |
| 47 | Integrated Grasshopper Algorithm-Evolutionary Programming Technique for Distributed Energy Resources Allocation. 2022 , | 0 |
| 46 | An Improved Crystal Structure Algorithm for Engineering Optimization Problems. 2022 , 11, 4109 | 1 |
| 45 | Detection of pulmonary embolism severity using clinical characteristics, hematological indices, and machine learning techniques. 16, | 0 |
| 44 | Health Monitoring Technology Based on Artificial Intelligence. 2023 , 117-212 | 0 |
| 43 | Discrete equilibrium optimizer combined with simulated annealing for feature selection. 2023 , 101942 | 0 |
| 42 | Optimized Extreme Learning Machine by an Improved Harris Hawks Optimization Algorithm for Mine Fire Flame Recognition. | 0 |
| 41 | Swarm Intelligence Research: From Bio-inspired Single-population Swarm Intelligence to Human-machine Hybrid Swarm Intelligence. 2023 , 20, 121-144 | 0 |
| 40 | Short-term electrical load forecasting using hybrid model of manta ray foraging optimization and support vector regression. 2023 , 388, 135856 | 1 |
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| 38 | Reconstruction Layout Optimization of Multivariety and Small Batch Workshop in Aerospace Industry. 2022 , 2022, 1-25 | 0 |
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| 36 | Data-Driven Iterative Learning LQG Control of Axial-Gap 5-DOF Self-Bearing Motor. 2022 , | 0 |
| 35 | Research on the Algorithm of Situational Element Extraction of Internet of Vehicles Security based on Optimized-FOA-PNN. 2022 , | 0 |
| 34 | An in-depth and contrasting survey of meta-heuristic approaches with classical feature selection techniques specific to cervical cancer. | 0 |
| 33 | Grey Wolf Optimization Based Demand Side Management in Solar PV Integrated Smart Grid Environment. 2023 , 11, 11827-11839 | 0 |
| 32 | Research on Improved PIO Based on Adaptive Inertia Weight Strategy and Fruit Fly Optimization Strategy. 2023 , 3911-3921 | 0 |
| 31 | Modified Butterfly Optimization Algorithm based on Convergence Factor and Disturbance Strategy. 2022 , | 0 |

- 30 Lens law based optimization algorithm: a novel approach. ○
- 29 An exhaustive review of the metaheuristic algorithms for search and optimization: taxonomy, applications, and open challenges. ○
- 28 A modified seahorse optimization algorithm based on chaotic maps for solving global optimization and engineering problems. **2023**, 41, 101408 ○
- 27 MEALPY: An open-source library for latest meta-heuristic algorithms in Python. **2023**, 139, 102871 ○
- 26 Crude oil production prediction based on an intelligent hybrid modelling structure generated by using the clustering algorithm in big data. **2023**, 225, 211703 ○
- 25 Multi-objective vaccine delivery problem considering low carbon and customer loss aversion. **2023**, 223, 119870 ○
- 24 Predicting the short-term electricity demand based on the weather variables using a hybrid CatBoost-PPSO model. **2023**, 71, 106432 ○
- 23 Determination of feeding rate ratio in coupled fed-batch fermentation with pH feedback considering limited number of switches. **2023**, 360, 2955-2975 ○
- 22 LFOA Optimized Multi-kernel Support Vector Machine and its Application to Pattern Recognition. **2022**, ○
- 21 Multitarget Search Algorithm Using Swarm Robots in an Unknown 3D Mountain Environment. **2023**, 13, 1969 ○
- 20 Experimental Setup of Apache Spark Application Execution in a Standalone Cluster Environment using Default Scheduling Mode. **2022**, ○
- 19 Application of Particle Swarm Optimization Algorithm in Solving Mathematical Modeling Optimal Problems. **2022**, ○
- 18 A systematic review on recent advances in autonomous mobile robot navigation. **2023**, 40, 101343 ○
- 17 Chaos theory in metaheuristics. **2023**, 1-20 ○
- 16 A review of feature selection methods based on meta-heuristic algorithms. 1-51 ○
- 15 IoT-Enabled Soil Nutrient Analysis and Crop Recommendation Model for Precision Agriculture. **2023**, 12, 61 ○
- 14 Solving VRPTW Problem Based on Improved Drosophila Optimization Algorithm. **2022**, ○
- 13 Hybrid Strategy Improved Sparrow Search Algorithm in the Field of Intrusion Detection. **2023**, 11, 32134-32151 ○

- 12 A Hybrid Gain-Ant Colony Algorithm for Green Vehicle Routing Problem. **2022**, ○
- 11 A working-condition-robust method for two-stage health measurement of rolling bearings based on energy entropy distribution and dynamic adversarial transfer network. **2023**, 34, 075020 ○
- 10 Hessenberg Decomposition-Based Medical Image Watermarking with Its Performance Comparison by Particle Swarm and JAYA Optimization Algorithms for Different Wavelets and Its Authentication Using AES. ○
- 9 Multi-level thresholding image segmentation for rubber tree secant using improved Otsu's method and snake optimizer. **2023**, 20, 9645-9669 ○
- 8 Adaptive t-distribution Drosophila Algorithm Based on Tent Mapping and Reverse Learning. **2022**, ○
- 7 A systematic review on fruit fly optimization algorithm and its applications. ○
- 6 Hybrid optimized feature selection and deep learning based COVID-19 disease prediction. 1-19 ○
- 5 Virtual Synchronous Generator Control Based on Fruit Fly Optimization Algorithm. **2022**, ○
- 4 Combined Forecasting Model of Precipitation Based on the CEEMD-ELM-FFOA Coupling Model. **2023**, 15, 1485 ○
- 3 Optimal control for hydraulic balance of secondary network in district heating system under distributed architecture. **2023**, 290, 113030 ○
- 2 Pneumothorax prediction using a foraging and hunting based ant colony optimizer assisted support vector machine. **2023**, 106948 ○
- 1 Mechanical Incipient Fault Detection and Performance Analysis Using Adaptive Teager-VMD Method. **2023**, 13, 6058 ○