

# Yong Zhang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89  
papers

2,991  
citations

31  
h-index

54  
g-index

99  
ext. papers

3,755  
ext. citations

4.8  
avg, IF

6.24  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 89 | Multi-Participant Federated Feature Selection Algorithm with Particle Swarm Optimizaition for Imbalanced Data under Privacy Protection. <i>IEEE Transactions on Artificial Intelligence</i> , <b>2022</b> , 1-1 | 4.7  | 2         |
| 88 | A multi-objective discrete particle swarm optimization method for particle routing in distributed particle filters. <i>Knowledge-Based Systems</i> , <b>2022</b> , 240, 108068                                  | 7.3  | 2         |
| 87 | Multi-source transfer learning guided ensemble LSTM for building multi-load forecasting. <i>Expert Systems With Applications</i> , <b>2022</b> , 117194   | 7.8  | 2         |
| 86 | Multisurrogate-Assisted Multitasking Particle Swarm Optimization for Expensive Multimodal Problems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,   | 10.2 | 5         |
| 85 | Feature selection using bare-bones particle swarm optimization with mutual information. <i>Pattern Recognition</i> , <b>2021</b> , 112, 107804  | 7.7  | 43        |
| 84 | Multiobjective Particle Swarm Optimization for Feature Selection With Fuzzy Cost. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 874-888   | 10.2 | 55        |
| 83 | A multi-strategy integrated multi-objective artificial bee colony for unsupervised band selection of hyperspectral images. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 60, 100806                 | 9.8  | 12        |
| 82 | Neighborhood opposition-based differential evolution with Gaussian perturbation. <i>Soft Computing</i> , <b>2021</b> , 25, 27-46  | 3.5  | 5         |
| 81 | A Fast Hybrid Feature Selection Based on Correlation-Guided Clustering and Particle Swarm Optimization for High-Dimensional Data. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,                   | 10.2 | 40        |
| 80 | Surrogate-Assisted Multi-objective Particle Swarm Optimization for Building Energy Saving Design. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 593-604  | 0.9  |           |
| 79 | Dual-Surrogate-Assisted Cooperative Particle Swarm Optimization for Expensive Multimodal Problems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 25, 794-808                             | 15.6 | 24        |
| 78 | A Novel Fault Diagnosis Strategy for Heterogeneous Wireless Sensor Networks. <i>Journal of Sensors</i> , <b>2021</b> , 2021, 1-18   | 2    | 0         |
| 77 | A multi-surrogate-assisted dual-layer ensemble feature selection algorithm. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 110, 107625   | 7.5  | 3         |
| 76 | A Pseudo-Label Guided Artificial Bee Colony Algorithm for Hyperspectral Band Selection. <i>Remote Sensing</i> , <b>2020</b> , 12, 3456  | 5    | 6         |
| 75 | Variable-Size Cooperative Coevolutionary Particle Swarm Optimization for Feature Selection on High-Dimensional Data. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 882-895           | 15.6 | 113       |
| 74 | Multi-objective Feature Selection Based on Artificial Bee Colony for Hyperspectral Images. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 611-621                                    | 0.3  | 2         |
| 73 | Multi-objective optimization of building energy performance using a particle swarm optimizer with less control parameters. <i>Journal of Building Engineering</i> , <b>2020</b> , 32, 101505                    | 5.2  | 32        |

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| 72 | Multi-objective feature selection based on artificial bee colony: An acceleration approach with variable sample size. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 88, 106041   | 7.5  | 36  |
| 71 | Learning Reward Function with Matching Network for Mapless Navigation. <i>Sensors</i> , <b>2020</b> , 20,  | 3.8  | 3   |
| 70 | A Molecular Interactions-Based Social Learning Particle Swarm Optimization Algorithm. <i>IEEE Access</i> , <b>2020</b> , 8, 135661-135674  | 3.5  | 2   |
| 69 | A Similarity-Based Cooperative Co-Evolutionary Algorithm for Dynamic Interval Multiobjective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 142-156                                     | 15.6 | 66  |
| 68 | Binary differential evolution with self-learning for multi-objective feature selection. <i>Information Sciences</i> , <b>2020</b> , 507, 67-85   | 7.7  | 153 |
| 67 | A grouping method based on improved PSO for task allocation in rescue environment <b>2019</b> ,  |      | 1   |
| 66 | Generalized pigeon-inspired optimization algorithms. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1   | 3.4  | 5   |
| 65 | A decomposition-based coevolutionary multiobjective local search for combinatorial multiobjective optimization. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 49, 178-193  | 9.8  | 16  |
| 64 | Brain storm optimization for feature selection using new individual clustering and updating mechanism. <i>Applied Intelligence</i> , <b>2019</b> , 49, 4294-4302   | 4.9  | 13  |
| 63 | Nonnegative Laplacian embedding guided subspace learning for unsupervised feature selection. <i>Pattern Recognition</i> , <b>2019</b> , 93, 337-352  | 7.7  | 35  |
| 62 | Broken Rotor Bar Fault Detection of Induction Motors Using a Joint Algorithm of Trust Region and Modified Bare-bones Particle Swarm Optimization. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2019</b> , 32, | 2.5  | 3   |
| 61 | Multidirectional Prediction Approach for Dynamic Multiobjective Optimization Problems. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 3362-3374   | 10.2 | 73  |
| 60 | Cost-sensitive feature selection using two-archive multi-objective artificial bee colony algorithm. <i>Expert Systems With Applications</i> , <b>2019</b> , 137, 46-58   | 7.8  | 97  |
| 59 | Building Energy Performance Optimization: A New Multi-objective Particle Swarm Method. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 139-147  | 0.9  | 4   |
| 58 | A filter-based bare-bone particle swarm optimization algorithm for unsupervised feature selection. <i>Applied Intelligence</i> , <b>2019</b> , 49, 2889-2898   | 4.9  | 54  |
| 57 | Unsupervised band selection based on artificial bee colony algorithm for hyperspectral image classification. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 75, 428-440   | 7.5  | 44  |
| 56 | Environment Sensitivity-Based Cooperative Co-Evolutionary Algorithms for Dynamic Multi-Objective Optimization. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2018</b> , 15, 1877-1890                    | 3    | 37  |
| 55 | Asynchronous accelerating multi-leader salp chains for feature selection. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 71, 964-979  | 7.5  | 143 |

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|----|---|------|-----|
| 54 | A decomposition-based archiving approach for multi-objective evolutionary optimization. <i>Information Sciences</i> , <b>2018</b> , 430-431, 397-413  | 7.7  | 65  |
| 53 | IBPSO-Based MUSIC Algorithm for Broken Rotor Bars Fault Detection of Induction Motors. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , <b>2018</b> , 31,                               | 2.5  | 4   |
| 52 | Multi-objective Robot Path Planning based on Bare Bones Particle Swarm Optimization with Crossover Operation <b>2018</b> ,  |      | 1   |
| 51 | A Wrapper Feature Selection Algorithm Based on Brain Storm Optimization. <i>Communications in Computer and Information Science</i> , <b>2018</b> , 308-315  | 0.3  | 4   |
| 50 | Path Planning of Mobile Robot Based on Hybrid Multi-Objective Bare Bones Particle Swarm Optimization With Differential Evolution. <i>IEEE Access</i> , <b>2018</b> , 6, 44542-44555                         | 3.5  | 28  |
| 49 | T-S Fuzzy-Based Optimal Control for Minimally Invasive Robotic Surgery with Input Saturation. <i>Journal of Sensors</i> , <b>2018</b> , 2018, 1-9   | 2    | 0   |
| 48 | Multi-Objective Particle Swarm Optimization Approach for Cost-Based Feature Selection in Classification. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , <b>2017</b> , 14, 64-75 | 3    | 220 |
| 47 | Personalized Search Inspired Fast Interactive Estimation of Distribution Algorithm and Its Application. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2017</b> , 21, 588-600                    | 15.6 | 35  |
| 46 | A PSO-based multi-objective multi-label feature selection method in classification. <i>Scientific Reports</i> , <b>2017</b> , 7, 376  | 4.9  | 51  |
| 45 | Pulse train-controlled CCM boost converter with suppression of low-frequency oscillation. <i>IET Power Electronics</i> , <b>2017</b> , 10, 957-967  | 2.2  | 6   |
| 44 | A parallel multi-objective cooperative co-evolutionary algorithm with changing variables <b>2017</b> ,  |      | 2   |
| 43 | A return-cost-based binary firefly algorithm for feature selection. <i>Information Sciences</i> , <b>2017</b> , 418-419, 561-574  | 7.7  | 140 |
| 42 | Many-objective evolutionary optimization based on reference points. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 50, 344-355   | 7.5  | 88  |
| 41 | An Improved Weighted ELM with Krill Herd Algorithm for Imbalanced Learning. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 371-378  | 0.9  | 2   |
| 40 | Petri Net Model and Its Optimization for the Problem of Robot Rescue Path Planning. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 551-563  | 0.9  |     |
| 39 | Improved Interval Multi-objective Evolutionary Optimization Algorithm Based on Directed Graph. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 40-48   | 0.9  |     |
| 38 | Discriminative sparse subspace learning and its application to unsupervised feature selection. <i>ISA Transactions</i> , <b>2016</b> , 61, 104-118  | 5.5  | 12  |
| 37 | Feature selection of unreliable data using an improved multi-objective PSO algorithm. <i>Neurocomputing</i> , <b>2016</b> , 171, 1281-1290  | 5.4  | 54  |

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|----|--|-----|-----|
| 36 | Cooperative Co-evolutionary Algorithm for Dynamic Multi-objective Optimization Based on Environmental Variable Grouping. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 564-570            | 0.9 | 3   |
| 35 | Interval Cost Feature Selection Using Multi-objective PSO and Linear Interval Programming. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 579-586  | 0.9 |     |
| 34 | A synthesized ranking-assisted NSGA-II for interval multi-objective optimization <b>2016</b> ,   |     | 1   |
| 33 | Fuzzy cost-based feature selection using interval multi-objective particle swarm optimization algorithm. <i>Journal of Intelligent and Fuzzy Systems</i> , <b>2016</b> , 31, 2807-2812               | 1.6 | 5   |
| 32 | An Improved PSO Algorithm for Interval Multi-Objective Optimization Systems. <i>IEICE Transactions on Information and Systems</i> , <b>2016</b> , E99.D, 2381-2384                                   | 0.6 | 2   |
| 31 | Research on Low-Scale Bifurcation of PFC Operating with a Cascade Buck Converter <b>2016</b> ,   |     | 1   |
| 30 | Solving the blocking flow shop scheduling problem with makespan using a modified fruit fly optimisation algorithm. <i>International Journal of Production Research</i> , <b>2016</b> , 54, 6782-6797 | 7.8 | 46  |
| 29 | Research on slow-scale bifurcation phenomenon of PFC cascade converter. <i>IET Power Electronics</i> , <b>2016</b> , 9, 2824-2832  | 2.2 | 6   |
| 28 | A Multi-direction Prediction Approach for Dynamic Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 629-636   | 0.9 | 4   |
| 27 | Feature selection algorithm based on bare bones particle swarm optimization. <i>Neurocomputing</i> , <b>2015</b> , 148, 150-157  | 5.4 | 167 |
| 26 | A multi-objective feature selection based on differential evolution <b>2015</b> ,  |     | 2   |
| 25 | Localizing odor source with multi-robot based on hybrid particle swarm optimization <b>2015</b> ,  |     | 4   |
| 24 | Multi-objective Differential Evolution Algorithm for Multi-label Feature Selection in Classification. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 339-345                               | 0.9 | 6   |
| 23 | A niching PSO-based multi-robot cooperation method for localizing odor sources. <i>Neurocomputing</i> , <b>2014</b> , 123, 308-317   | 5.4 | 40  |
| 22 | Hybrid bare-bones PSO for dynamic economic dispatch with valve-point effects. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 18, 248-260  | 7.5 | 73  |
| 21 | Adaptive bare-bones particle swarm optimization algorithm and its convergence analysis. <i>Soft Computing</i> , <b>2014</b> , 18, 1337-1352  | 3.5 | 41  |
| 20 | Instance transfer learning with multisource dynamic TrAdaBoost. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 282747  | 2.2 | 3   |
| 19 | A reference points-based evolutionary algorithm for many-objective optimization <b>2014</b> ,  |     | 3   |

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| 18 | PSO-Based Robot Path Planning for Multisurvivor Rescue in Limited Survival Time. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-10  | 1.1 | 10  |
| 17 | Sets evolution-based particle swarm optimization for many-objective problems <b>2014</b> ,   |     | 2   |
| 16 | Multi-objective PSO Algorithm for Feature Selection Problems with Unreliable Data. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 386-393  | 0.9 | 5   |
| 15 | Robot path planning in an environment with many terrains based on interval multi-objective PSO <b>2013</b> ,   |     | 6   |
| 14 | Robot path planning in uncertain environment using multi-objective particle swarm optimization. <i>Neurocomputing</i> , <b>2013</b> , 103, 172-185   | 5.4 | 236 |
| 13 | Multi-Objective Optimization Problems Using Cooperative Evolvement Particle Swarm Optimizer. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 655-663             | 0.3 | 8   |
| 12 | A bare-bones multi-objective particle swarm optimization algorithm for environmental/economic dispatch. <i>Information Sciences</i> , <b>2012</b> , 192, 213-227                                 | 7.7 | 202 |
| 11 | Localising odour source using multi-robot and anemotaxis-based particle swarm optimisation. <i>IET Control Theory and Applications</i> , <b>2012</b> , 6, 1661                                   | 2.5 | 30  |
| 10 | Reinforcement Learning in Robot Path Optimization. <i>Journal of Software</i> , <b>2012</b> , 7,   | 3   | 8   |
| 9  | Application of Variational Granularity Language Sets in Interactive Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 76-83   | 0.9 | 1   |
| 8  | On generating interpretable and precise fuzzy systems based on Pareto multi-objective cooperative co-evolutionary algorithm. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 1284-1294 | 7.5 | 22  |
| 7  | Handling multi-objective optimization problems with a multi-swarm cooperative particle swarm optimizer. <i>Expert Systems With Applications</i> , <b>2011</b> ,                                  | 7.8 | 10  |
| 6  | Modified particle swarm optimization for odor source localization of multi-robot <b>2011</b> ,   |     | 18  |
| 5  | Multi-objective Particle Swarm Optimization for Robot Path Planning in Environment with Danger Sources. <i>Journal of Computers</i> , <b>2011</b> , 6,   | 1.4 | 47  |
| 4  | Environmental/economic power dispatch using a hybrid multi-objective optimization algorithm. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2010</b> , 32, 607-614     | 5.1 | 115 |
| 3  | Particle Swarm Optimization for Multi-objective Systems with Interval Parameters. <i>Zidonghua Xuebao/Acta Automatica Sinica</i> , <b>2009</b> , 34, 921-928                                     |     | 12  |
| 2  | <b>2006</b> ,  |     | 1   |
| 1  | Multi-objective Particle Swarm Optimization Based on Minimal Particle Angle. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 571-580  | 0.9 | 5   |

