# Yong Zhang

## List of Publications by Citations

| 89 | 2,991 | 31 | 54 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 99 | 3,755 | 4.8 | 6.24 |
|---|---|---|---|
| ext. papers | ext. citations | avg, IF | L-index |

| # | Paper | IF | Citations |
|---|-------|----|-----------| 
| 89 | Robot path planning in uncertain environment using multi-objective particle swarm optimization. *Neurocomputing*, **2013**, 103, 172-185 | 5.4 | 236 |
| 88 | Multi-Objective Particle Swarm Optimization Approach for Cost-Based Feature Selection in Classification. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2017**, 14, 64-75 | 3 | 220 |
| 87 | A bare-bones multi-objective particle swarm optimization algorithm for environmental/economic dispatch. *Information Sciences*, **2012**, 192, 213-227 | 7.7 | 202 |
| 86 | Feature selection algorithm based on bare bones particle swarm optimization. *Neurocomputing*, **2015**, 148, 150-157 | 5.4 | 167 |
| 85 | Binary differential evolution with self-learning for multi-objective feature selection. *Information Sciences*, **2020**, 507, 67-85 | 7.7 | 153 |
| 84 | Asynchronous accelerating multi-leader salp chains for feature selection. *Applied Soft Computing Journal*, **2018**, 71, 964-979 | 7.5 | 143 |
| 83 | A return-cost-based binary firefly algorithm for feature selection. *Information Sciences*, **2017**, 418-419, 561-574 | 7.7 | 140 |
| 82 | Environmental/economic power dispatch using a hybrid multi-objective optimization algorithm. *International Journal of Electrical Power and Energy Systems*, **2010**, 32, 607-614 | 5.1 | 115 |
| 81 | Variable-Size Cooperative Coevolutionary Particle Swarm Optimization for Feature Selection on High-Dimensional Data. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 882-895 | 15.6 | 113 |
| 80 | Cost-sensitive feature selection using two-archive multi-objective artificial bee colony algorithm. *Expert Systems With Applications*, **2019**, 137, 46-58 | 7.8 | 97 |
| 79 | Many-objective evolutionary optimization based on reference points. *Applied Soft Computing Journal*, **2017**, 50, 344-355 | 7.5 | 88 |
| 78 | Multidirectional Prediction Approach for Dynamic Multiobjective Optimization Problems. *IEEE Transactions on Cybernetics*, **2019**, 49, 3362-3374 | 10.2 | 73 |
| 77 | Hybrid bare-bones PSO for dynamic economic dispatch with valve-point effects. *Applied Soft Computing Journal*, **2014**, 18, 248-260 | 7.5 | 73 |
| 76 | A Similarity-Based Cooperative Co-Evolutionary Algorithm for Dynamic Interval Multiobjective Optimization Problems. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 142-156 | 15.6 | 66 |
| 75 | A decomposition-based archiving approach for multi-objective evolutionary optimization. *Information Sciences*, **2018**, 430-431, 397-413 | 7.7 | 65 |
| 74 | Multiobjective Particle Swarm Optimization for Feature Selection With Fuzzy Cost. *IEEE Transactions on Cybernetics*, **2021**, 51, 874-888 | 10.2 | 55 |
| 73 | Feature selection of unreliable data using an improved multi-objective PSO algorithm. *Neurocomputing*, **2016**, 171, 1281-1290 | 5.4 | 54 |

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| 72 | A filter-based bare-bone particle swarm optimization algorithm for unsupervised feature selection. *Applied Intelligence*, **2019**, 49, 2889-2898 | 4.9 | 54 |
| 71 | A PSO-based multi-objective multi-label feature selection method in classification. *Scientific Reports*, **2017**, 7, 376 | 4.9 | 51 |
| 70 | Multi-objective Particle Swarm Optimization for Robot Path Planning in Environment with Danger Sources. *Journal of Computers*, **2011**, 6, | 1.4 | 47 |
| 69 | Solving the blocking flow shop scheduling problem with makespan using a modified fruit fly optimisation algorithm. *International Journal of Production Research*, **2016**, 54, 6782-6797 | 7.8 | 46 |
| 68 | Unsupervised band selection based on artificial bee colony algorithm for hyperspectral image classification. *Applied Soft Computing Journal*, **2019**, 75, 428-440 | 7.5 | 44 |
| 67 | Feature selection using bare-bones particle swarm optimization with mutual information. *Pattern Recognition*, **2021**, 112, 107804 | 7.7 | 43 |
| 66 | Adaptive bare-bones particle swarm optimization algorithm and its convergence analysis. *Soft Computing*, **2014**, 18, 1337-1352 | 3.5 | 41 |
| 65 | A niching PSO-based multi-robot cooperation method for localizing odor sources. *Neurocomputing*, **2014**, 123, 308-317 | 5.4 | 40 |
| 64 | A Fast Hybrid Feature Selection Based on Correlation-Guided Clustering and Particle Swarm Optimization for High-Dimensional Data. *IEEE Transactions on Cybernetics*, **2021**, PP, | 10.2 | 40 |
| 63 | Environment Sensitivity-Based Cooperative Co-Evolutionary Algorithms for Dynamic Multi-Objective Optimization. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2018**, 15, 1877-1890 | 3 | 37 |
| 62 | Multi-objective feature selection based on artificial bee colony: An acceleration approach with variable sample size. *Applied Soft Computing Journal*, **2020**, 88, 106041 | 7.5 | 36 |
| 61 | Personalized Search Inspired Fast Interactive Estimation of Distribution Algorithm and Its Application. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 588-600 | 15.6 | 35 |
| 60 | Nonnegative Laplacian embedding guided subspace learning for unsupervised feature selection. *Pattern Recognition*, **2019**, 93, 337-352 | 7.7 | 35 |
| 59 | Multi-objective optimization of building energy performance using a particle swarm optimizer with less control parameters. *Journal of Building Engineering*, **2020**, 32, 101505 | 5.2 | 32 |
| 58 | Localising odour source using multi-robot and anemotaxis-based particle swarm optimisation. *IET Control Theory and Applications*, **2012**, 6, 1661 | 2.5 | 30 |
| 57 | Path Planning of Mobile Robot Based on Hybrid Multi-Objective Bare Bones Particle Swarm Optimization With Differential Evolution. *IEEE Access*, **2018**, 6, 44542-44555 | 3.5 | 28 |
| 56 | Dual-Surrogate-Assisted Cooperative Particle Swarm Optimization for Expensive Multimodal Problems. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 794-808 | 15.6 | 24 |
| 55 | On generating interpretable and precise fuzzy systems based on Pareto multi-objective cooperative co-evolutionary algorithm. *Applied Soft Computing Journal*, **2011**, 11, 1284-1294 | 7.5 | 22 |

| 54 | Modified particle swarm optimization for odor source localization of multi-robot **2011**, | | 18 |
|---|---|---|---|
| 53 | A decomposition-based coevolutionary multiobjective local search for combinatorial multiobjective optimization. *Swarm and Evolutionary Computation*, **2019**, 49, 178-193 | 9.8 | 16 |
| 52 | Brain storm optimization for feature selection using new individual clustering and updating mechanism. *Applied Intelligence*, **2019**, 49, 4294-4302 | 4.9 | 13 |
| 51 | Discriminative sparse subspace learning and its application to unsupervised feature selection. *ISA Transactions*, **2016**, 61, 104-118 | 5.5 | 12 |
| 50 | Particle Swarm Optimization for Multi-objective Systems with Interval Parameters. *Zidonghua Xuebao/Acta Automatica Sinica*, **2009**, 34, 921-928 | | 12 |
| 49 | A multi-strategy integrated multi-objective artificial bee colony for unsupervised band selection of hyperspectral images. *Swarm and Evolutionary Computation*, **2021**, 60, 100806 | 9.8 | 12 |
| 48 | PSO-Based Robot Path Planning for Multisurvivor Rescue in Limited Survival Time. *Mathematical Problems in Engineering*, **2014**, 2014, 1-10 | 1.1 | 10 |
| 47 | Handling multi-objective optimization problems with a multi-swarm cooperative particle swarm optimizer. *Expert Systems With Applications*, **2011**, | 7.8 | 10 |
| 46 | Reinforcement Learning in Robot Path Optimization. *Journal of Software*, **2012**, 7, | 3 | 8 |
| 45 | Multi-Objective Optimization Problems Using Cooperative Evolvement Particle Swarm Optimizer. *Journal of Computational and Theoretical Nanoscience*, **2013**, 10, 655-663 | 0.3 | 8 |
| 44 | A Pseudo-Label Guided Artificial Bee Colony Algorithm for Hyperspectral Band Selection. *Remote Sensing*, **2020**, 12, 3456 | 5 | 6 |
| 43 | Robot path planning in an environment with many terrains based on interval multi-objective PSO **2013**, | | 6 |
| 42 | Pulse train-controlled CCM boost converter with suppression of low-frequency oscillation. *IET Power Electronics*, **2017**, 10, 957-967 | 2.2 | 6 |
| 41 | Multi-objective Differential Evolution Algorithm for Multi-label Feature Selection in Classification. *Lecture Notes in Computer Science*, **2015**, 339-345 | 0.9 | 6 |
| 40 | Research on slow-scale bifurcation phenomenon of PFC cascade converter. *IET Power Electronics*, **2016**, 9, 2824-2832 | 2.2 | 6 |
| 39 | Generalized pigeon-inspired optimization algorithms. *Science China Information Sciences*, **2019**, 62, 1 | 3.4 | 5 |
| 38 | Multi-objective Particle Swarm Optimization Based on Minimal Particle Angle. *Lecture Notes in Computer Science*, **2005**, 571-580 | 0.9 | 5 |
| 37 | Multisurrogate-Assisted Multitasking Particle Swarm Optimization for Expensive Multimodal Problems. *IEEE Transactions on Cybernetics*, **2021**, PP, | 10.2 | 5 |

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| 36 | Multi-objective PSO Algorithm for Feature Selection Problems with Unreliable Data. *Lecture Notes in Computer Science*, **2014**, 386-393 | 0.9 | 5 |
| 35 | Fuzzy cost-based feature selection using interval multi-objective particle swarm optimization algorithm. *Journal of Intelligent and Fuzzy Systems*, **2016**, 31, 2807-2812 | 1.6 | 5 |
| 34 | Neighborhood opposition-based differential evolution with Gaussian perturbation. *Soft Computing*, **2021**, 25, 27-46 | 3.5 | 5 |
| 33 | Localizing odor source with multi-robot based on hybrid particle swarm optimization **2015**, | | 4 |
| 32 | Building Energy Performance Optimization: A New Multi-objective Particle Swarm Method. *Lecture Notes in Computer Science*, **2019**, 139-147 | 0.9 | 4 |
| 31 | A Multi-direction Prediction Approach for Dynamic Multi-objective Optimization. *Lecture Notes in Computer Science*, **2016**, 629-636 | 0.9 | 4 |
| 30 | IBPSO-Based MUSIC Algorithm for Broken Rotor Bars Fault Detection of Induction Motors. *Chinese Journal of Mechanical Engineering (English Edition)*, **2018**, 31, | 2.5 | 4 |
| 29 | A Wrapper Feature Selection Algorithm Based on Brain Storm Optimization. *Communications in Computer and Information Science*, **2018**, 308-315 | 0.3 | 4 |
| 28 | Broken Rotor Bar Fault Detection of Induction Motors Using a Joint Algorithm of Trust Region and Modified Bare-bones Particle Swarm Optimization. *Chinese Journal of Mechanical Engineering (English Edition)*, **2019**, 32, | 2.5 | 3 |
| 27 | Instance transfer learning with multisource dynamic TrAdaBoost. *Scientific World Journal, The*, **2014**, 2014, 282747 | 2.2 | 3 |
| 26 | A reference points-based evolutionary algorithm for many-objective optimization **2014**, | | 3 |
| 25 | Cooperative Co-evolutionary Algorithm for Dynamic Multi-objective Optimization Based on Environmental Variable Grouping. *Lecture Notes in Computer Science*, **2016**, 564-570 | 0.9 | 3 |
| 24 | Learning Reward Function with Matching Network for Mapless Navigation. *Sensors*, **2020**, 20, | 3.8 | 3 |
| 23 | A multi-surrogate-assisted dual-layer ensemble feature selection algorithm. *Applied Soft Computing Journal*, **2021**, 110, 107625 | 7.5 | 3 |
| 22 | A parallel multi-objective cooperative co-evolutionary algorithm with changing variables **2017**, | | 2 |
| 21 | A multi-objective feature selection based on differential evolution **2015**, | | 2 |
| 20 | Sets evolution-based particle swarm optimization for many-objective problems **2014**, | | 2 |
| 19 | Multi-Participant Federated Feature Selection Algorithm with Particle Swarm Optimizaiton for Imbalanced Data under Privacy Protection. *IEEE Transactions on Artificial Intelligence*, **2022**, 1-1 | 4.7 | 2 |

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| 18 | A multi-objective discrete particle swarm optimization method for particle routing in distributed particle filters. *Knowledge-Based Systems*, **2022**, 240, 108068 | 7.3 | 2 |
| 17 | An Improved Weighted ELM with Krill Herd Algorithm for Imbalanced Learning. *Lecture Notes in Computer Science*, **2017**, 371-378 | 0.9 | 2 |
| 16 | Multi-objective Feature Selection Based on Artificial Bee Colony for Hyperspectral Images. *Communications in Computer and Information Science*, **2020**, 611-621 | 0.3 | 2 |
| 15 | A Molecular Interactions-Based Social Learning Particle Swarm Optimization Algorithm. *IEEE Access*, **2020**, 8, 135661-135674 | 3.5 | 2 |
| 14 | An Improved PSO Algorithm for Interval Multi-Objective Optimization Systems. *IEICE Transactions on Information and Systems*, **2016**, E99.D, 2381-2384 | 0.6 | 2 |
| 13 | Multi-source transfer learning guided ensemble LSTM for building multi-load forecasting. *Expert Systems With Applications*, **2022**, 117194 | 7.8 | 2 |
| 12 | A grouping method based on improved PSO for task allocation in rescue environment **2019**, | | 1 |
| 11 | **2006**, | | 1 |
| 10 | Application of Variational Granularity Language Sets in Interactive Genetic Algorithms. *Lecture Notes in Computer Science*, **2012**, 76-83 | 0.9 | 1 |
| 9 | A synthesized ranking-assisted NSGA-II for interval multi-objective optimization **2016**, | | 1 |
| 8 | Research on Low-Scale Bifurcation of PFC Operating with a Cascade Buck Converter **2016**, | | 1 |
| 7 | Multi-objective Robot Path Planning based on Bare Bones Particle Swarm Optimization with Crossover Operation **2018**, | | 1 |
| 6 | T-S Fuzzy-Based Optimal Control for Minimally Invasive Robotic Surgery with Input Saturation. *Journal of Sensors*, **2018**, 2018, 1-9 | 2 | 0 |
| 5 | A Novel Fault Diagnosis Strategy for Heterogeneous Wireless Sensor Networks. *Journal of Sensors*, **2021**, 2021, 1-18 | 2 | 0 |
| 4 | Interval Cost Feature Selection Using Multi-objective PSO and Linear Interval Programming. *Lecture Notes in Computer Science*, **2016**, 579-586 | 0.9 | |
| 3 | Petri Net Model and Its Optimization for the Problem of Robot Rescue Path Planning. *Lecture Notes in Computer Science*, **2017**, 551-563 | 0.9 | |
| 2 | Improved Interval Multi-objective Evolutionary Optimization Algorithm Based on Directed Graph. *Lecture Notes in Computer Science*, **2017**, 40-48 | 0.9 | |
| 1 | Surrogate-Assisted Multi-objective Particle Swarm Optimization for Building Energy Saving Design. *Lecture Notes in Computer Science*, **2021**, 593-604 | 0.9 | |