# Qingfu Zhang

List of Publications by Year
in descending order

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|---|---|---|---|
| 238 papers | 27,162 citations | 24978 57 h-index | 6282 158 g-index |
| 242 all docs | 242 docs citations | 242 times ranked | 10153 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | MOEA/D: A Multiobjective Evolutionary Algorithm Based on Decomposition. IEEE Transactions on Evolutionary Computation, 2007, 11, 712-731. | 7.5 | 7,038 |
| 2 | Multiobjective Optimization Problems With Complicated Pareto Sets, MOEA/D and NSGA-II. IEEE Transactions on Evolutionary Computation, 2009, 13, 284-302. | 7.5 | 2,189 |
| 3 | Multiobjective evolutionary algorithms: A survey of the state of the art. Swarm and Evolutionary Computation, 2011, 1, 32-49. | 4.5 | 1,788 |
| 4 | Differential Evolution With Composite Trial Vector Generation Strategies and Control Parameters. IEEE Transactions on Evolutionary Computation, 2011, 15, 55-66. | 7.5 | 1,377 |
| 5 | An Evolutionary Many-Objective Optimization Algorithm Based on Dominance and Decomposition. IEEE Transactions on Evolutionary Computation, 2015, 19, 694-716. | 7.5 | 923 |
| 6 | Decomposition of a Multiobjective Optimization Problem Into a Number of Simple Multiobjective Subproblems. IEEE Transactions on Evolutionary Computation, 2014, 18, 450-455. | 7.5 | 766 |
| 7 | RM-MEDA: A Regularity Model-Based Multiobjective Estimation of Distribution Algorithm. IEEE Transactions on Evolutionary Computation, 2008, 12, 41-63. | 7.5 | 626 |
| 8 | Expensive Multiobjective Optimization by MOEA/D With Gaussian Process Model. IEEE Transactions on Evolutionary Computation, 2010, 14, 456-474. | 7.5 | 550 |
| 9 | Objective Reduction in Many-Objective Optimization: Linear and Nonlinear Algorithms. IEEE Transactions on Evolutionary Computation, 2013, 17, 77-99. | 7.5 | 408 |
| 10 | The performance of a new version of MOEA/D on CEC09 unconstrained MOP test instances. , 2009, , . | | 390 |
| 11 | A Gaussian Process Surrogate Model Assisted Evolutionary Algorithm for Medium Scale Expensive Optimization Problems. IEEE Transactions on Evolutionary Computation, 2014, 18, 180-192. | 7.5 | 379 |
| 12 | Decomposition-Based Multiobjective Evolutionary Algorithm With an Ensemble of Neighborhood Sizes. IEEE Transactions on Evolutionary Computation, 2012, 16, 442-446. | 7.5 | 364 |
| 13 | Distributed evolutionary algorithms and their models: A survey of the state-of-the-art. Applied Soft Computing Journal, 2015, 34, 286-300. | 4.1 | 361 |
| 14 | Stable Matching-Based Selection in Evolutionary Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2014, 18, 909-923. | 7.5 | 351 |
| 15 | A Population Prediction Strategy for Evolutionary Dynamic Multiobjective Optimization. IEEE Transactions on Cybernetics, 2014, 44, 40-53. | 6.2 | 325 |
| 16 | Adaptive Operator Selection With Bandits for a Multiobjective Evolutionary Algorithm Based on Decomposition. IEEE Transactions on Evolutionary Computation, 2014, 18, 114-130. | 7.5 | 300 |
| 17 | MOEA/D-ACO: A Multiobjective Evolutionary Algorithm Using Decomposition and AntColony. IEEE Transactions on Cybernetics, 2013, 43, 1845-1859. | 6.2 | 288 |
| 18 | DE/EDA: A new evolutionary algorithm for global optimization. Information Sciences, 2005, 169, 249-262. | 4.0 | 278 |

| # | Article | IF | Citations |
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| 19 | Push and pull search for solving constrained multi-objective optimization problems. Swarm and Evolutionary Computation, 2019, 44, 665-679. | 4.5 | 242 |
| 20 | Hybridization of Decomposition and Local Search for Multiobjective Optimization. IEEE Transactions on Cybernetics, 2014, 44, 1808-1820. | 6.2 | 239 |
| 21 | Approximating the Set of Pareto-Optimal Solutions in Both the Decision and Objective Spaces by an Estimation of Distribution Algorithm. IEEE Transactions on Evolutionary Computation, 2009, 13, 1167-1189. | 7.5 | 227 |
| 22 | An orthogonal genetic algorithm for multimedia multicast routing. IEEE Transactions on Evolutionary Computation, 1999, 3, 53-62. | 7.5 | 224 |
| 23 | Enhancing the search ability of differential evolution through orthogonal crossover. Information Sciences, 2012, 185, 153-177. | 4.0 | 222 |
| 24 | Decomposition-Based Algorithms Using Pareto Adaptive Scalarizing Methods. IEEE Transactions on Evolutionary Computation, 2016, 20, 821-837. | 7.5 | 222 |
| 25 | Community detection in networks by using multiobjective evolutionary algorithm with decomposition. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 4050-4060. | 1.2 | 211 |
| 26 | Adaptive Replacement Strategies for MOEA/D. IEEE Transactions on Cybernetics, 2016, 46, 474-486. | 6.2 | 209 |
| 27 | An External Archive Guided Multiobjective Evolutionary Algorithm Based on Decomposition for Combinatorial Optimization. IEEE Transactions on Evolutionary Computation, 2015, 19, 508-523. | 7.5 | 202 |
| 28 | On the convergence of a class of estimation of distribution algorithms. IEEE Transactions on Evolutionary Computation, 2004, 8, 127-136. | 7.5 | 193 |
| 29 | An Evolutionary Algorithm With Guided Mutation for the Maximum Clique Problem. IEEE Transactions on Evolutionary Computation, 2005, 9, 192-200. | 7.5 | 179 |
| 30 | A Survey on Cooperative Co-Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2019, 23, 421-441. | 7.5 | 177 |
| 31 | A Self-Adaptive Differential Evolution Algorithm for Scheduling a Single Batch-Processing Machine With Arbitrary Job Sizes and Release Times. IEEE Transactions on Cybernetics, 2021, 51, 1430-1442. | 6.2 | 146 |
| 32 | Are All the Subproblems Equally Important? Resource Allocation in Decomposition-Based Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2016, 20, 52-64. | 7.5 | 136 |
| 33 | On Tchebycheff Decomposition Approaches for Multiobjective Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 226-244. | 7.5 | 135 |
| 34 | Biased Multiobjective Optimization and Decomposition Algorithm. IEEE Transactions on Cybernetics, 2017, 47, 52-66. | 6.2 | 132 |
| 35 | Interrelationship-Based Selection for Decomposition Multiobjective Optimization. IEEE Transactions on Cybernetics, 2015, 45, 2076-2088. | 6.2 | 128 |
| 36 | Constrained Subproblems in a Decomposition-Based Multiobjective Evolutionary Algorithm. IEEE Transactions on Evolutionary Computation, 2016, 20, 475-480. | 7.5 | 126 |

| # | Article | IF | Citations |
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| 37 | Adaptively Allocating Search Effort in Challenging Many-Objective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2018, 22, 433-448. | 7.5 | 126 |
| 38 | Comparison between MOEA/D and NSGA-III on a set of novel many and multi-objective benchmark problems with challenging difficulties. Swarm and Evolutionary Computation, 2019, 46, 104-117. | 4.5 | 123 |
| 39 | Prediction-Based Population Re-initialization for Evolutionary Dynamic Multi-objective Optimization. , 2007, , 832-846. | | 120 |
| 40 | A Self-Organizing Multiobjective Evolutionary Algorithm. IEEE Transactions on Evolutionary Computation, 2016, 20, 792-806. | 7.5 | 113 |
| 41 | A multi-fidelity surrogate-model-assisted evolutionary algorithm for computationally expensive optimization problems. Journal of Computational Science, 2016, 12, 28-37. | 1.5 | 110 |
| 42 | A multi-objective evolutionary algorithm for the deployment and power assignment problem in wireless sensor networks. Computer Networks, 2010, 54, 960-976. | 3.2 | 107 |
| 43 | Combining Model-based and Genetics-based Offspring Generation for Multi-objective Optimization Using a Convergence Criterion. , 0, , . | | 104 |
| 44 | Decomposition-Based-Sorting and Angle-Based-Selection for Evolutionary Multiobjective and Many-Objective Optimization. IEEE Transactions on Cybernetics, 2017, 47, 2824-2837. | 6.2 | 103 |
| 45 | A Constrained Multiobjective Evolutionary Algorithm With Detect-and-Escape Strategy. IEEE Transactions on Evolutionary Computation, 2020, 24, 938-947. | 7.5 | 103 |
| 46 | Difficulty Adjustable and Scalable Constrained Multiobjective Test Problem Toolkit. Evolutionary Computation, 2020, 28, 339-378. | 2.3 | 91 |
| 47 | A Two-Stage Multiobjective Evolutionary Algorithm for Multiobjective Multidepot Vehicle Routing Problem With Time Windows. IEEE Transactions on Cybernetics, 2019, 49, 2467-2478. | 6.2 | 90 |
| 48 | Investigating the Properties of Indicators and an Evolutionary Many-Objective Algorithm Using Promising Regions. IEEE Transactions on Evolutionary Computation, 2021, 25, 75-86. | 7.5 | 89 |
| 49 | Global path planning of wheeled robots using multi-objective memetic algorithms. Integrated Computer-Aided Engineering, 2015, 22, 387-404. | 2.5 | 85 |
| 50 | An Intelligent Multi-Restart Memetic Algorithm for Box Constrained Global Optimisation. Evolutionary Computation, 2013, 21, 107-147. | 2.3 | 84 |
| 51 | Evolutionary Many-Objective Optimization Based on Dynamical Decomposition. IEEE Transactions on Evolutionary Computation, 2019, 23, 361-375. | 7.5 | 81 |
| 52 | Evolutionary Many-Objective Optimization Based on Adversarial Decomposition. IEEE Transactions on Cybernetics, 2020, 50, 753-764. | 6.2 | 81 |
| 53 | On the use of two reference points in decomposition based multiobjective evolutionary algorithms. Swarm and Evolutionary Computation, 2017, 34, 89-102. | 4.5 | 80 |
| 54 | An Estimation of Distribution Algorithm With Cheap and Expensive Local Search Methods. IEEE Transactions on Evolutionary Computation, 2015, 19, 807-822. | 7.5 | 79 |

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| 55 | Learning to Decompose: A Paradigm for Decomposition-Based Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 376-390. | 7.5 | 77 |
| 56 | Hybrid estimation of distribution algorithm for global optimization. Engineering Computations, 2004, 21, 91-107. | 0.7 | 76 |
| 57 | Decomposition-Based Multiobjective Optimization for Constrained Evolutionary Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 574-587. | 5.9 | 69 |
| 58 | On Stability of Fixed Points of Limit Models of Univariate Marginal Distribution Algorithm and Factorized Distribution Algorithm. IEEE Transactions on Evolutionary Computation, 2004, 8, 80-93. | 7.5 | 66 |
| 59 | A Constrained Decomposition Approach With Grids for Evolutionary Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 564-577. | 7.5 | 65 |
| 60 | MOEA/D with NBI-style Tchebycheff approach for portfolio management. , 2010, , . | | 62 |
| 61 | A Self-guided Genetic Algorithm for permutation flowshop scheduling problems. Computers and Operations Research, 2012, 39, 1450-1457. | 2.4 | 61 |
| 62 | A Grid Weighted Sum Pareto Local Search for Combinatorial Multi and Many-Objective Optimization. IEEE Transactions on Cybernetics, 2019, 49, 3586-3598. | 6.2 | 60 |
| 63 | MOEA/D for constrained multiobjective optimization: Some preliminary experimental results. , 2010, , . | | 58 |
| 64 | Interactive MOEA/D for multi-objective decision making. , 2011, , . | | 58 |
| 65 | A Generator for Multiobjective Test Problems With Difficult-to-Approximate Pareto Front Boundaries. IEEE Transactions on Evolutionary Computation, 2019, 23, 556-571. | 7.5 | 55 |
| 66 | A multiobjective optimization based framework to balance the global exploration and local exploitation in expensive optimization. Journal of Global Optimization, 2015, 61, 677-694. | 1.1 | 53 |
| 67 | Efficient Nondomination Level Update Method for Steady-State Evolutionary Multiobjective Optimization. IEEE Transactions on Cybernetics, 2017, 47, 2838-2849. | 6.2 | 52 |
| 68 | MOEA/D for flowshop scheduling problems. , 2008, , . | | 51 |
| 69 | Energy-aware topology control for wireless sensor networks using memetic algorithms. Computer Communications, 2007, 30, 2753-2764. | 3.1 | 50 |
| 70 | Matching-Based Selection With Incomplete Lists for Decomposition Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2017, 21, 554-568. | 7.5 | 50 |
| 71 | A Simple Yet Efficient Evolution Strategy for Large-Scale Black-Box Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 637-646. | 7.5 | 47 |
| 72 | Comparison between MOEA/D and NSGA-II on the Multi-Objective Travelling Salesman Problem. Studies in Computational Intelligence, 2009, , 309-324. | 0.7 | 46 |

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| 73 | A class of learning algorithms for principal component analysis and minor component analysis. IEEE Transactions on Neural Networks, 2000, 11, 200-204. | 4.8 | 45 |
| 74 | An evolutionary multi-objective optimization framework of discretization-based feature selection for classification. Swarm and Evolutionary Computation, 2021, 60, 100770. | 4.5 | 44 |
| 75 | An Efficient Evolutionary Algorithm for Chance-Constrained Bi-Objective Stochastic Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 786-796. | 7.5 | 43 |
| 76 | On the discrete-time dynamics of a PCA learning algorithm. Neurocomputing, 2003, 55, 761-769. | 3.5 | 42 |
| 77 | Regularity Model for Noisy Multiobjective Optimization. IEEE Transactions on Cybernetics, 2016, 46, 1997-2009. | 6.2 | 42 |
| 78 | Evolution strategies for continuous optimization: A survey of the state-of-the-art. Swarm and Evolutionary Computation, 2020, 56, 100694. | 4.5 | 41 |
| 79 | Multi-View Spectral Clustering Tailored Tensor Low-Rank Representation. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4784-4797. | 5.6 | 41 |
| 80 | A Two-Phase Evolutionary Approach for Compressive Sensing Reconstruction. IEEE Transactions on Cybernetics, 2017, 47, 2651-2663. | 6.2 | 39 |
| 81 | An Evolutionary Algorithm to a Multi-Objective Deployment and Power Assignment Problem in Wireless Sensor Networks. , 2008, , . | | 37 |
| 82 | Identification of multi-resolution network structures with multi-objective immune algorithm. Applied Soft Computing Journal, 2013, 13, 1705-1717. | 4.1 | 37 |
| 83 | Approximating Hypervolume and Hypervolume Contributions Using Polar Coordinate. IEEE Transactions on Evolutionary Computation, 2019, 23, 913-918. | 7.5 | 37 |
| 84 | Guidelines for developing effective Estimation of Distribution Algorithms in solving single machine scheduling problems. Expert Systems With Applications, 2010, 37, 6441-6451. | 4.4 | 36 |
| 85 | A Preference-Based Multiobjective Evolutionary Approach for Sparse Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 1716-1731. | 7.2 | 36 |
| 86 | Balancing exploration and exploitation in multiobjective evolutionary optimization. Information Sciences, 2019, 497, 129-148. | 4.0 | 35 |
| 87 | A class of learning algorithms for principal component analysis and minor component analysis. IEEE Transactions on Neural Networks, 2000, 11, 529-533. | 4.8 | 34 |
| 88 | A new learning-based adaptive multi-objective evolutionary algorithm. Swarm and Evolutionary Computation, 2019, 44, 304-319. | 4.5 | 34 |
| 89 | Hybrid Estimation of Distribution Algorithm for Multiobjective Knapsack Problem. Lecture Notes in Computer Science, 2004, , 145-154. | 1.0 | 32 |
| 90 | Dynamical system for computing the eigenvectors associated with the largest eigenvalue of a positive definite matrix. IEEE Transactions on Neural Networks, 1995, 6, 790-791. | 4.8 | 30 |

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| 91 | Evolutionary Algorithms Refining a Heuristic: A Hybrid Method for Shared-Path Protections in WDM Networks Under SRLG Constraints. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 51-61. | 5.5 | 30 |
| 92 | Multiobjective differential evolution algorithm based on decomposition for a type of multiobjective bilevel programming problems. Knowledge-Based Systems, 2016, 107, 271-288. | 4.0 | 30 |
| 93 | Adaptive Epsilon dominance in decomposition-based multiobjective evolutionary algorithm. Swarm and Evolutionary Computation, 2019, 45, 52-67. | 4.5 | 30 |
| 94 | An enhanced MOEA/D-DE and its application to multiobjective analog cell sizing. , 2010, , . | | 29 |
| 95 | Combinations of estimation of distribution algorithms and other techniques. International Journal of Automation and Computing, 2007, 4, 273-280. | 4.5 | 28 |
| 96 | A multiobjective evolutionary algorithm based on decomposition and probability model. , 2012, , . | | 28 |
| 97 | PPLS/D: Parallel Pareto Local Search Based on Decomposition. IEEE Transactions on Cybernetics, 2020, 50, 1060-1071. | 6.2 | 28 |
| 98 | A Model-Based Evolutionary Algorithm for Bi-objective Optimization. , 0, , . | | 26 |
| 99 | An Effective Ensemble Framework for Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 645-659. | 7.5 | 26 |
| 100 | Crowd Counting Via Perspective-Guided Fractional-Dilation Convolution. IEEE Transactions on Multimedia, 2022, 24, 2633-2647. | 5.2 | 26 |
| 101 | Framework for Many-Objective Test Problems with Both Simple and Complicated Pareto-Set Shapes. Lecture Notes in Computer Science, 2011, , 197-211. | 1.0 | 26 |
| 102 | Estimation of Distribution Algorithm with 2-opt Local Search for the Quadratic Assignment Problem. Studies in Fuzziness and Soft Computing, 2006, , 281-292. | 0.6 | 25 |
| 103 | A surrogate-assisted evolutionary algorithm for minimax optimization. , 2010, , . | | 25 |
| 104 | A replacement strategy for balancing convergence and diversity in MOEA/D. , 2014, , . | | 25 |
| 105 | Entropy-Based Termination Criterion for Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2016, 20, 485-498. | 7.5 | 25 |
| 106 | A decomposition-based multi-objective Particle Swarm Optimization algorithm for continuous optimization problems. , 2008, , . | | 24 |
| 107 | Balancing exploration and exploitation in multiobjective evolutionary optimization. , 2018, , . | | 24 |
| 108 | Learning From a Stream of Nonstationary and Dependent Data in Multiobjective Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 541-555. | 7.5 | 24 |

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| 109 | Multiobjective Optimization-Aided Decision-Making System for Large-Scale Manufacturing Planning. IEEE Transactions on Cybernetics, 2022, 52, 8326-8339. | 6.2 | 24 |
| 110 | Problem Specific MOEA/D for Barrier Coverage with Wireless Sensors. IEEE Transactions on Cybernetics, 2016, 47, 1-12. | 6.2 | 23 |
| 111 | Adaptive weights generation for decomposition-based multi-objective optimization using Gaussian process regression. , 2017, , . | | 23 |
| 112 | Optimizing online recurring promotions for dual-channel retailers: Segmented markets with multiple objectives. European Journal of Operational Research, 2018, 267, 612-627. | 3.5 | 23 |
| 113 | A Three-Level Radial Basis Function Method for Expensive Optimization. IEEE Transactions on Cybernetics, 2022, 52, 5720-5731. | 6.2 | 23 |
| 114 | Cooperative Multiobjective Evolutionary Algorithm With Propulsive Population for Constrained Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3476-3491. | 5.9 | 23 |
| 115 | Multi-objective mobile agent-based Sensor Network Routing using MOEA/D. , 2010, , . | | 21 |
| 116 | Enhanced particle swarm optimization based on principal component analysis and line search. Applied Mathematics and Computation, 2014, 229, 440-456. | 1.4 | 21 |
| 117 | Solving Nonlinear Equation Systems by a Two-Phase Evolutionary Algorithm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5652-5663. | 5.9 | 21 |
| 118 | Machine learning based decision support for many-objective optimization problems. Neurocomputing, 2014, 146, 30-47. | 3.5 | 20 |
| 119 | Enhancing MOEA/D with guided mutation and priority update for multi-objective optimization. , 2009, , . | | 19 |
| 120 | On the use of random weights in MOEA/D. , 2015, , . | | 19 |
| 121 | Distribution of Computational Effort in ParallelÂMOEA/D. Lecture Notes in Computer Science, 2011, , 488-502. | 1.0 | 19 |
| 122 | Approaches to selection and their effect on fitness modelling in an Estimation of Distribution Algorithm. , 2008, , . | | 18 |
| 123 | Multiobjective Memetic Algorithms. Studies in Computational Intelligence, 2012, , 201-217. | 0.7 | 18 |
| 124 | Fitness Modeling With Markov Networks. IEEE Transactions on Evolutionary Computation, 2013, 17, 862-879. | 7.5 | 18 |
| 125 | Behavioral study of the surrogate model-aware evolutionary search framework. , 2014, , . | | 18 |
| 126 | The Collaborative Local Search Based on Dynamic-Constrained Decomposition With Grids for Combinatorial Multiobjective Optimization. IEEE Transactions on Cybernetics, 2021, 51, 2639-2650. | 6.2 | 18 |

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| 127 | Multi-objective evolutionary methods for channel selection in Brain-Computer Interfaces: Some preliminary experimental results. , 2010, , . | | 17 |
| 128 | MOEA/D with Tabu Search for multiobjective permutation flow shop scheduling problems. , 2014, , . | | 17 |
| 129 | A Penalty-Based Differential Evolution for Multimodal Optimization. IEEE Transactions on Cybernetics, 2022, 52, 6024-6033. | 6.2 | 17 |
| 130 | An estimation of distribution algorithm with guided mutation for a complex flow shop scheduling problem. , 2007, , . | | 16 |
| 131 | Meta-Heuristic Combining Prior Online and Offline Information for the Quadratic Assignment Problem. IEEE Transactions on Cybernetics, 2014, 44, 429-444. | 6.2 | 16 |
| 132 | Deep Amended Gradient Descent for Efficient Spectral Reconstruction From Single RGB Images. IEEE Transactions on Computational Imaging, 2021, 7, 1176-1188. | 2.6 | 16 |
| 133 | Energy function for the one-unit Oja algorithm. IEEE Transactions on Neural Networks, 1995, 6, 1291-1293. | 4.8 | 15 |
| 134 | MOEA/D-DRA with two crossover operators. , 2010, , . | | 15 |
| 135 | Multiobjective test problems with complicated Pareto fronts: Difficulties in degeneracy. , 2014, , . | | 15 |
| 136 | Decomposition Based Evolutionary Algorithm with a Dual Set of reference vectors. , 2017, , . | | 15 |
| 137 | Evolutionary Deep Fusion Method and its Application in Chemical Structure Recognition. IEEE Transactions on Evolutionary Computation, 2021, 25, 883-893. | 7.5 | 15 |
| 138 | Evolutionary Competitive Multitasking Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 278-289. | 7.5 | 15 |
| 139 | Structure learning and optimisation in a Markov-network based estimation of distribution algorithm. , 2009, , . | | 14 |
| 140 | A multiobjective evolutionary algorithm based on decomposition with normal boundary intersection for traffic grooming in optical networks. Information Sciences, 2014, 289, 91-116. | 4.0 | 14 |
| 141 | Improving geodesic distance estimation based on locally linear assumption. Pattern Recognition Letters, 2008, 29, 862-870. | 2.6 | 13 |
| 142 | Errata to â€œRM-MEDA: A Regularity Model-Based Multiobjective Estimation of Distribution Algorithmâ€• [Feb 08 41-63]. IEEE Transactions on Evolutionary Computation, 2008, 12, 392-392. | 7.5 | 13 |
| 143 | On the limits of effectiveness in estimation of distribution algorithms. , 2011, , . | | 13 |
| 144 | Radial Basis Function Assisted Optimization Method with Batch Infill Sampling Criterion for Expensive Optimization. , 2019, , . | | 13 |

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| 145 | Variable-Length Pareto Optimization via Decomposition-Based Evolutionary Multiobjective Algorithm. IEEE Transactions on Evolutionary Computation, 2019, 23, 987-999. | 7.5 | 13 |
| 146 | Combining Simple and Adaptive Monte Carlo Methods for Approximating Hypervolume. IEEE Transactions on Evolutionary Computation, 2020, 24, 896-907. | 7.5 | 13 |
| 147 | Maximum Entropy Subspace Clustering Network. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2199-2210. | 5.6 | 13 |
| 148 | On the Performance of Metamodel Assisted MOEA/D. , 2007, , 547-557. | | 13 |
| 149 | Effect of Objective Normalization and Penalty Parameter on Penalty Boundary Intersection Decomposition-Based Evolutionary Many-Objective Optimization Algorithms. Evolutionary Computation, 2021, 29, 157-186. | 2.3 | 12 |
| 150 | MOEA/D with Iterative Thresholding Algorithm for Sparse Optimization Problems. Lecture Notes in Computer Science, 2012, , 93-101. | 1.0 | 12 |
| 151 | Iterated Local Search with Guided Mutation. , 0, , . | | 11 |
| 152 | Global multiobjective optimization via estimation of distribution algorithm with biased initialization and crossover. , 2007, , . | | 11 |
| 153 | A multi-phase multiobjective approach based on decomposition for sparse reconstruction. , 2016, , . | | 11 |
| 154 | Offline and Online Objective Reduction via Gaussian Mixture Model Clustering. IEEE Transactions on Evolutionary Computation, 2023, 27, 341-354. | 7.5 | 11 |
| 155 | A HYBRID ESTIMATION OF DISTRIBUTION ALGORITHM FOR CDMA CELLULAR SYSTEM DESIGN. International Journal of Computational Intelligence and Applications, 2008, 07, 187-200. | 0.6 | 10 |
| 156 | Guest Editorial: Special Issue on Evolutionary Algorithms Based on Probabilistic Models. IEEE Transactions on Evolutionary Computation, 2009, 13, 1197-1198. | 7.5 | 10 |
| 157 | Multiobjective evolutionary algorithm based on decomposition for 3-objective optimization problems with objectives in different scales. Soft Computing, 2015, 19, 157-166. | 2.1 | 10 |
| 158 | EB-GLS: an improved guided local search based on the big valley structure. Memetic Computing, 2018, 10, 333-350. | 2.7 | 10 |
| 159 | Wiggly Parallel-Coupled Line Design by Using Multiobjective Evolutionay Algorithm. IEEE Microwave and Wireless Components Letters, 2018, 28, 648-650. | 2.0 | 10 |
| 160 | On the convergence of a factorized distribution algorithm with truncation selection. Complexity, 2004, 9, 17-23. | 0.9 | 9 |
| 161 | Combination of EDA and DE for continuous biobjective optimization. , 2008, , . | | 9 |
| 162 | Performance Analysis of Evolutionary Algorithms for Steiner Tree Problems. Evolutionary Computation, 2017, 25, 707-723. | 2.3 | 9 |

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| 163 | Pareto Adaptive Scalarising Functions for Decomposition Based Algorithms. Lecture Notes in Computer Science, 2015, , 248-262. | 1.0 | 9 |
| 164 | A Multiutility Framework With Application for Studying Tradeoff Between Utility and Lifetime in Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 4701-4711. | 3.9 | 8 |
| 165 | A surrogate model assisted evolutionary algorithm for computationally expensive design optimization problems with discrete variables. , 2016, , . | | 8 |
| 166 | MOEA/D With Linear Programming for Double Row Layout Problem With Center-Islands. IEEE Transactions on Cybernetics, 2021, 51, 3549-3561. | 6.2 | 8 |
| 167 | A new replica placement strategy based on multi-objective optimisation for HDFS. International Journal of Bio-Inspired Computation, 2020, 16, 13. | 0.6 | 8 |
| 168 | Modelling the Population Distribution in Multi-objective Optimization by Generative Topographic Mapping. Lecture Notes in Computer Science, 2006, , 443-452. | 1.0 | 8 |
| 169 | Population-Based Guided Local Search: Some preliminary experimental results. , 2010, , . | | 7 |
| 170 | Approximation Model Guided Selection for Evolutionary Multiobjective Optimization. Lecture Notes in Computer Science, 2013, , 398-412. | 1.0 | 7 |
| 171 | Adjustment of Weight Vectors of Penalty-Based Boundary Intersection Method in MOEA/D. Lecture Notes in Computer Science, 2019, , 91-100. | 1.0 | 7 |
| 172 | Multi-objective Optimization of Barrier Coverage with Wireless Sensors. Lecture Notes in Computer Science, 2015, , 557-572. | 1.0 | 7 |
| 173 | A Subproblem-dependent Heuristic in MOEA/D for the Deployment and Power Assignment Problem in Wireless Sensor Networks. , 2009, , . | | 6 |
| 174 | Self-adaptive lower confidence bound: A new general and effective prescreening method for Gaussian Process surrogate model assisted evolutionary algorithms. , 2012, , . | | 6 |
| 175 | MOEA/D with guided local search: Some preliminary experimental results. , 2013, , . | | 6 |
| 176 | Two-Level Stable Matching-Based Selection in MOEA/D. , 2015, , . | | 6 |
| 177 | Structure Learning and Optimisation in a Markov Network Based Estimation of Distribution Algorithm. Adaptation, Learning, and Optimization, 2010, , 45-69. | 0.5 | 6 |
| 178 | Spatio-temporal data evolutionary clustering based on MOEA/D. , 2011, , . | | 5 |
| 179 | Balancing Convergence and Diversity by Using Two Different Reproduction Operators in MOEA/D: Some Preliminary Work. , 2015, , . | | 5 |
| 180 | Multi-objective Local Search Based on Decomposition. Lecture Notes in Computer Science, 2016, , 431-441. | 1.0 | 5 |

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| 181 | Learning Low-Rank Graph With Enhanced Supervision. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 2501-2506. | 5.6 | 5 |
| 182 | Using Parallel Strategies to Speed up Pareto Local Search. Lecture Notes in Computer Science, 2017, , 62-74. | 1.0 | 5 |
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