

Zhi-Hui Zhan

List of Publications by Year in descending order

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172
papers

10,953
citations

47006

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33894

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176
all docs

176
docs citations

176
times ranked

6125
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Many-Objective Job-Shop Scheduling: A Multiple Populations for Multiple Objectives-Based Genetic Algorithm Approach. IEEE Transactions on Cybernetics, 2023, 53, 1460-1474. | 9.5 | 24 |
| 2 | Surrogate-Assisted Hybrid-Model Estimation of Distribution Algorithm for Mixed-Variable Hyperparameters Optimization in Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2338-2352. | 11.3 | 22 |
| 3 | Optimizing Niche Center for Multimodal Optimization Problems. IEEE Transactions on Cybernetics, 2023, 53, 2544-2557. | 9.5 | 11 |
| 4 | Dual Differential Grouping: A More General Decomposition Method for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2023, 53, 3624-3638. | 9.5 | 15 |
| 5 | Orthogonal Transfer for Multitask Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 185-200. | 10.0 | 17 |
| 6 | Distributed Differential Evolution With Adaptive Resource Allocation. IEEE Transactions on Cybernetics, 2023, 53, 2791-2804. | 9.5 | 37 |
| 7 | Scale adaptive fitness evaluation-based particle swarm optimisation for hyperparameter and architecture optimisation in neural networks and deep learning. CAAI Transactions on Intelligence Technology, 2023, 8, 849-862. | 8.1 | 19 |
| 8 | Gene Targeting Differential Evolution: A Simple and Efficient Method for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2023, 27, 964-979. | 10.0 | 14 |
| 9 | Scheduling Workflows With Composite Tasks: A Nested Particle Swarm Optimization Approach. IEEE Transactions on Services Computing, 2022, 15, 1074-1088. | 4.6 | 19 |
| 10 | Multipopulation Ant Colony System With Knowledge-Based Local Searches for Multiobjective Supply Chain Configuration. IEEE Transactions on Evolutionary Computation, 2022, 26, 512-526. | 10.0 | 34 |
| 11 | Bipartite Cooperative Coevolution for Energy-Aware Coverage Path Planning of UAVs. IEEE Transactions on Artificial Intelligence, 2022, 3, 29-42. | 4.7 | 25 |
| 12 | Resource-Aware Distributed Differential Evolution for Training Expensive Neural-Network-Based Controller in Power Electronic Circuit. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6286-6296. | 11.3 | 20 |
| 13 | Matrix-Based Evolutionary Computation. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 315-328. | 4.9 | 52 |
| 14 | A Multiobjective Framework for Many-Objective Optimization. IEEE Transactions on Cybernetics, 2022, 52, 13654-13668. | 9.5 | 21 |
| 15 | A survey on evolutionary computation for complex continuous optimization. Artificial Intelligence Review, 2022, 55, 59-110. | 15.7 | 143 |
| 16 | A Meta-Knowledge Transfer-Based Differential Evolution for Multitask Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 719-734. | 10.0 | 49 |
| 17 | Evolutionary Computation for Expensive Optimization: A Survey. , 2022, 19, 3-23. | | 48 |
| 18 | Evolutionary deep learning: A survey. Neurocomputing, 2022, 483, 42-58. | 5.9 | 77 |

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| 19 | Memory-Based Ant Colony System Approach for Multi-Source Data Associated Dynamic Electric Vehicle Dispatch Optimization. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17491-17505. | 8.0 | 22 |
| 20 | Evolutionary Computation for Intelligent Transportation in Smart Cities: A Survey [Review Article]. IEEE Computational Intelligence Magazine, 2022, 17, 83-102. | 3.2 | 34 |
| 21 | A Buffer-Based Ant Colony System Approach for Dynamic Cold Chain Logistics Scheduling. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 1438-1452. | 4.9 | 13 |
| 22 | An Adaptive Ant Colony System Based on Variable Range Receding Horizon Control for Berth Allocation Problem. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 21675-21686. | 8.0 | 10 |
| 23 | Compressed-Encoding Particle Swarm Optimization with Fuzzy Learning for Large-Scale Feature Selection. Symmetry, 2022, 14, 1142. | 2.2 | 18 |
| 24 | A Multipopulation Multiobjective Ant Colony System Considering Travel and Prevention Costs for Vehicle Routing in COVID-19-Like Epidemics. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 25062-25076. | 8.0 | 23 |
| 25 | Social learning particle swarm optimization with two-surrogate collaboration for offline data-driven multiobjective optimization. , 2022, , . | | 1 |
| 26 | Data-Driven Evolutionary Algorithm With Perturbation-Based Ensemble Surrogates. IEEE Transactions on Cybernetics, 2021, 51, 3925-3937. | 9.5 | 65 |
| 27 | A Multi-Objective Ant Colony System Algorithm for Airline Crew Rostering Problem With Fairness and Satisfaction. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6784-6798. | 8.0 | 57 |
| 28 | Maximizing Lifetime of Range-Adjustable Wireless Sensor Networks: A Neighborhood-Based Estimation of Distribution Algorithm. IEEE Transactions on Cybernetics, 2021, 51, 5433-5444. | 9.5 | 25 |
| 29 | Adaptive Granularity Learning Distributed Particle Swarm Optimization for Large-Scale Optimization. IEEE Transactions on Cybernetics, 2021, 51, 1175-1188. | 9.5 | 122 |
| 30 | Efficient Hyperparameter Optimization for Convolution Neural Networks in Deep Learning: A Distributed Particle Swarm Optimization Approach. Cybernetics and Systems, 2021, 52, 36-57. | 2.5 | 48 |
| 31 | Multiple populations co-evolutionary particle swarm optimization for multi-objective cardinality constrained portfolio optimization problem. Neurocomputing, 2021, 430, 58-70. | 5.9 | 35 |
| 32 | Investigation and Improvement of Distributed Differential Evolution Algorithm Cloudde. , 2021, , . | | 0 |
| 33 | A New Evolutionary Computation Framework for Privacy-Preserving Optimization. , 2021, , . | | 9 |
| 34 | SAFE: Scale-Adaptive Fitness Evaluation Method for Expensive Optimization Problems. IEEE Transactions on Evolutionary Computation, 2021, 25, 478-491. | 10.0 | 86 |
| 35 | Knowledge Embedding-Assisted Multi-Exemplar Learning Particle Swarm Optimization for Traffic Signal Timing Optimization. , 2021, , . | | 2 |
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| 37 | Multi-criteria differential evolution. , 2021, , . | | 4 |
| 38 | Region Encoding Helps Evolutionary Computation Evolve Faster: A New Solution Encoding Scheme in Particle Swarm for Large-Scale Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 779-793. | 10.0 | 62 |
| 39 | Distributed Memetic Algorithm for Outsourced Database Fragmentation. IEEE Transactions on Cybernetics, 2021, 51, 4808-4821. | 9.5 | 39 |
| 40 | Generation-Level Parallelism for Evolutionary Computation: A Pipeline-Based Parallel Particle Swarm Optimization. IEEE Transactions on Cybernetics, 2021, 51, 4848-4859. | 9.5 | 40 |
| 41 | Efficient High-utility Itemset Mining Based on a Novel Data Structure. , 2021, , . | | 1 |
| 42 | Multi-Exemplar Learning Particle Swarm Optimization for Regional Traffic Signal Timing Optimization with Multi-Intersections. , 2021, , . | | 1 |
| 43 | Real Traffic Distance-Aware Logistics Scheduling. , 2021, , . | | 1 |
| 44 | An Efficient Ant Colony System for Multi-Robot Task Allocation with Large-scale Cooperative Tasks and Precedence Constraints. , 2021, , . | | 6 |
| 45 | Automatic Niching Differential Evolution With Contour Prediction Approach for Multimodal Optimization Problems. IEEE Transactions on Evolutionary Computation, 2020, 24, 114-128. | 10.0 | 156 |
| 46 | Cooperative Coevolutionary Bare-Bones Particle Swarm Optimization With Function Independent Decomposition for Large-Scale Supply Chain Network Design With Uncertainties. IEEE Transactions on Cybernetics, 2020, 50, 4454-4468. | 9.5 | 78 |
| 47 | Dynamic Group Learning Distributed Particle Swarm Optimization for Large-Scale Optimization and Its Application in Cloud Workflow Scheduling. IEEE Transactions on Cybernetics, 2020, 50, 2715-2729. | 9.5 | 159 |
| 48 | Triple Archives Particle Swarm Optimization. IEEE Transactions on Cybernetics, 2020, 50, 4862-4875. | 9.5 | 139 |
| 49 | Local Binary Pattern-Based Adaptive Differential Evolution for Multimodal Optimization Problems. IEEE Transactions on Cybernetics, 2020, 50, 3343-3357. | 9.5 | 97 |
| 50 | Neural Network-Based Information Transfer for Dynamic Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1557-1570. | 11.3 | 68 |
| 51 | An expanded particle swarm optimization based on multi-exemplar and forgetting ability. Information Sciences, 2020, 508, 105-120. | 6.9 | 115 |
| 52 | Adaptive Distributed Differential Evolution. IEEE Transactions on Cybernetics, 2020, 50, 4633-4647. | 9.5 | 149 |
| 53 | Distributed Individuals for Multiple Peaks: A Novel Differential Evolution for Multimodal Optimization Problems. IEEE Transactions on Evolutionary Computation, 2020, 24, 708-719. | 10.0 | 95 |
| 54 | An Efficient Ant Colony System Approach for New Energy Vehicle Dispatch Problem. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4784-4797. | 8.0 | 47 |

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| 55 | Automatic Planning of Multiple Itineraries: A Niching Genetic Evolution Approach. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 4225-4240. | 8.0 | 22 |
| 56 | Large-scale evolutionary optimization: a survey and experimental comparative study. International Journal of Machine Learning and Cybernetics, 2020, 11, 729-745. | 3.6 | 54 |
| 57 | A Multi-Angle Hierarchical Differential Evolution Approach for Multimodal Optimization Problems. IEEE Access, 2020, 8, 178322-178335. | 4.2 | 5 |
| 58 | Adaptive Population Differential Evolution with Dual Control Strategy for Large-Scale Global optimization Problems. , 2020, , . | | 3 |
| 59 | Adaptive Guidance-based Differential Evolution with Iterative Feedback Archive Strategy for Multimodal optimization Problems. , 2020, , . | | 10 |
| 60 | Walrasian Equilibrium-Based Multiobjective Optimization for Task Allocation in Mobile Crowdsourcing. IEEE Transactions on Computational Social Systems, 2020, 7, 1033-1046. | 4.4 | 62 |
| 61 | A Fast Efficient Local Search-Based Algorithm for Multi-Objective Supply Chain Configuration Problem. IEEE Access, 2020, 8, 62924-62931. | 4.2 | 6 |
| 62 | Boosting Data-Driven Evolutionary Algorithm With Localized Data Generation. IEEE Transactions on Evolutionary Computation, 2020, 24, 923-937. | 10.0 | 111 |
| 63 | Bridge Connecting Multiobjective and Multimodal: A New Approach for Multiobjective Optimization via Multimodal Optimization. , 2020, , . | | 1 |
| 64 | Particle Swarm Optimization with Hybrid Ring Topology for Multimodal Optimization Problems. , 2020, , . | | 5 |
| 65 | Multiobjective direction driven local search for constrained supply chain configuration problem. , 2020, , . | | 1 |
| 66 | A New and Efficient Genetic Algorithm with Promotion Selection Operator. , 2020, , . | | 3 |
| 67 | Multiobjective Cloud Workflow Scheduling: A Multiple Populations Ant Colony System Approach. IEEE Transactions on Cybernetics, 2019, 49, 2912-2926. | 9.5 | 202 |
| 68 | A Discrete Multiobjective Particle Swarm Optimizer for Automated Assembly of Parallel Cognitive Diagnosis Tests. IEEE Transactions on Cybernetics, 2019, 49, 2792-2805. | 9.5 | 28 |
| 69 | Historical and Heuristic-Based Adaptive Differential Evolution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2623-2635. | 9.3 | 66 |
| 70 | A Distributed Multiple Populations Framework for Evolutionary Algorithm in Solving Dynamic Optimization Problems. IEEE Access, 2019, 7, 44372-44390. | 4.2 | 15 |
| 71 | An Optimization and Auction-Based Incentive Mechanism to Maximize Social Welfare for Mobile Crowdsourcing. IEEE Transactions on Computational Social Systems, 2019, 6, 414-429. | 4.4 | 103 |
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| 73 | A benefit-driven genetic algorithm for balancing privacy and utility in database fragmentation. , 2019, , . | | 12 |
| 74 | Multi-runway Aircraft Arrival Scheduling: A Receding Horizon Control Based Ant Colony System Approach. , 2019, , . | | 2 |
| 75 | A New Learning Scheme of Emotion Recognition From Speech by Using Mean Fourier Parameters. , 2019, , . | | 2 |
| 76 | Distributed minimum spanning tree differential evolution for multimodal optimization problems. Soft Computing, 2019, 23, 13339-13349. | 3.6 | 10 |
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| 79 | Coevolutionary Particle Swarm Optimization With Bottleneck Objective Learning Strategy for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 587-602. | 10.0 | 194 |
| 80 | Particle swarm optimization based on dimensional learning strategy. Swarm and Evolutionary Computation, 2019, 45, 33-51. | 8.1 | 155 |
| 81 | An Improved Selection Operator for Multi-objective Optimization. Lecture Notes in Computer Science, 2019, , 379-388. | 1.3 | 1 |
| 82 | Dual-Strategy Differential Evolution With Affinity Propagation Clustering for Multimodal Optimization Problems. IEEE Transactions on Evolutionary Computation, 2018, 22, 894-908. | 10.0 | 120 |
| 83 | A multi-swarm particle swarm optimization algorithm based on dynamical topology and purposeful detecting. Applied Soft Computing Journal, 2018, 67, 126-140. | 7.2 | 112 |
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| 89 | Competition-Based Distributed Differential Evolution. , 2018, , . | | 10 |
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| 91 | Neural Network for Change Direction Prediction in Dynamic Optimization. IEEE Access, 2018, 6, 72649-72662. | 4.2 | 21 |
| 92 | Two-Dimensional-Reduction Random Forest. , 2018, , . | | 1 |
| 93 | Verifiable privacy-preserving single-layer perceptron training scheme in cloud computing. Soft Computing, 2018, 22, 7719-7732. | 3.6 | 21 |
| 94 | Towards Efficient Verifiable Conjunctive Keyword Search for Large Encrypted Database. Lecture Notes in Computer Science, 2018, , 83-100. | 1.3 | 25 |
| 95 | An Adaptive Ant Colony System for Public Bicycle Scheduling Problem. Lecture Notes in Computer Science, 2018, , 417-429. | 1.3 | 2 |
| 96 | Solving multimodal optimization problems through a multiobjective optimization approach. , 2017, , . | | 3 |
| 97 | Indicator-based multi-objective genetic programming for workflow scheduling problem. , 2017, , . | | 1 |
| 98 | Load balance aware distributed differential evolution for computationally expensive optimization problems. , 2017, , . | | 8 |
| 99 | Link mapping-oriented ant colony system for virtual network embedding. , 2017, , . | | 12 |
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| 102 | Soft Subspace Clustering Ensemble Framework Based on the Latent Model. , 2017, , . | | 0 |
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| 104 | Distributed co-evolutionary particle swarm optimization using adaptive migration strategy. , 2017, , . | | 1 |
| 105 | An Energy Aware Unified Ant Colony System for Dynamic Virtual Machine Placement in Cloud Computing. Energies, 2017, 10, 609. | 3.1 | 31 |
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| 111 | Parallel Differential Evolution Based on Distributed Cloud Computing Resources for Power Electronic Circuit Optimization. , 2016, , . | | 9 |
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| 113 | Kuhnâ€™Munkres Parallel Genetic Algorithm for the Set Cover Problem and Its Application to Large-Scale Wireless Sensor Networks. IEEE Transactions on Evolutionary Computation, 2016, 20, 695-710. | 10.0 | 84 |
| 114 | A Primary Theoretical Study on Decomposition-Based Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2016, 20, 563-576. | 10.0 | 33 |
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| 117 | Bio-Inspired Computation for Solving the Optimal Coverage Problem in Wireless Sensor Networks. , 2015, , 263-285. | | 5 |
| 118 | Differential evolution for power electronic circuit optimization. , 2015, , . | | 5 |
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| 121 | Deadline Constrained Cloud Computing Resources Scheduling through an Ant Colony System Approach. , 2015, , . | | 34 |
| 122 | Industry 4.0 with cyber-physical integration: A design and manufacture perspective. , 2015, , . | | 55 |
| 123 | Comparisons study of APSO OLPSO and CLPSO on CEC2005 and CEC2014 test suits. , 2015, , . | | 5 |
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| 125 | A Parallel Implementation of Multiobjective Particle Swarm Optimization Algorithm Based on Decomposition. , 2015, , . | | 7 |
| 126 | Renumber Coevolutionary Multiswarm Particle Swarm Optimization for Multi-objective Workflow Scheduling on Cloud Computing Environment. , 2015, , . | | 15 |

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| 127 | Dichotomy Guided Based Parameter Adaptation for Differential Evolution. , 2015, , . | | 4 |
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| 130 | Deadline constrained cloud computing resources scheduling for cost optimization based on dynamic objective genetic algorithm. , 2015, , . | | 71 |
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| 132 | An Evolutionary Algorithm with Double-Level Archives for Multiobjective Optimization. IEEE Transactions on Cybernetics, 2015, 45, 1851-1863. | 9.5 | 52 |
| 133 | Competitive and cooperative particle swarm optimization with information sharing mechanism for global optimization problems. Information Sciences, 2015, 293, 370-382. | 6.9 | 154 |
| 134 | Differential Evolution with an Evolution Path: A DEEP Evolutionary Algorithm. IEEE Transactions on Cybernetics, 2015, 45, 1798-1810. | 9.5 | 134 |
| 135 | Pseudo multi-population differential evolution for multimodal optimization. , 2014, , . | | 2 |
| 136 | A generic archive technique for enhancing the niching performance of evolutionary computation. , 2014, , . | | 5 |
| 137 | Normalization group brain storm optimization for power electronic circuit optimization. , 2014, , . | | 7 |
| 138 | Energy aware virtual machine placement scheduling in cloud computing based on ant colony optimization approach. , 2014, , . | | 64 |
| 139 | Adaptive particle swarm optimization with variable relocation for dynamic optimization problems. , 2014, , . | | 8 |
| 140 | Load Balance Aware Genetic Algorithm for Task Scheduling in Cloud Computing. Lecture Notes in Computer Science, 2014, , 644-655. | 1.3 | 23 |
| 141 | Bi-Velocity Discrete Particle Swarm Optimization and Its Application to Multicast Routing Problem in Communication Networks. IEEE Transactions on Industrial Electronics, 2014, 61, 7141-7151. | 7.9 | 106 |
| 142 | Differential Evolution With Two-Level Parameter Adaptation. IEEE Transactions on Cybernetics, 2014, 44, 1080-1099. | 9.5 | 286 |
| 143 | Optimizing Power Electronic Circuit Design with Uniform Search Range. International Journal of Swarm Intelligence Research, 2014, 5, 41-59. | 0.7 | 2 |
| 144 | Multiple Populations for Multiple Objectives: A Coevolutionary Technique for Solving Multiobjective Optimization Problems. IEEE Transactions on Cybernetics, 2013, 43, 445-463. | 9.5 | 464 |

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| 145 | A Set-Based Discrete Differential Evolution Algorithm. , 2013, , . | | 5 |
| 146 | Particle Swarm Optimization With an Aging Leader and Challengers. IEEE Transactions on Evolutionary Computation, 2013, 17, 241-258. | 10.0 | 598 |
| 147 | Parameter investigation in brain storm optimization. , 2013, , . | | 31 |
| 148 | Multiobjective genetic algorithm for demand side management of smart grid. , 2013, , . | | 10 |
| 149 | Differential evolution enhanced with evolution path vector. , 2013, , . | | 0 |
| 150 | An Ant Colony Optimization Approach for Nurse Rostering Problem. , 2013, , . | | 8 |
| 151 | Enhance differential evolution with random walk. , 2012, , . | | 13 |
| 152 | Extended Binary Particle Swarm Optimization Approach for Disjoint Set Covers Problem in Wireless Sensor Networks. , 2012, , . | | 8 |
| 153 | A modified brain storm optimization. , 2012, , . | | 130 |
| 154 | An Efficient Resource Allocation Scheme Using Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2012, 16, 801-816. | 10.0 | 117 |
| 155 | Optimizing RFID Network Planning by Using a Particle Swarm Optimization Algorithm With Redundant Reader Elimination. IEEE Transactions on Industrial Informatics, 2012, 8, 900-912. | 11.3 | 114 |
| 156 | A survey on algorithm adaptation in evolutionary computation. Frontiers of Electrical and Electronic Engineering, 2012, 7, 16-31. | 0.5 | 24 |
| 157 | Evolutionary Computation Meets Machine Learning: A Survey. IEEE Computational Intelligence Magazine, 2011, 6, 68-75. | 3.2 | 204 |
| 158 | Orthogonal Learning Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2011, 15, 832-847. | 10.0 | 620 |
| 159 | Co-evolutionary differential evolution with dynamic population size and adaptive migration strategy. , 2011, , . | | 12 |
| 160 | Orthogonal learning particle swarm optimization for power electronic circuit optimization with free search range. , 2011, , . | | 8 |
| 161 | Experimental study on PSO diversity. , 2010, , . | | 8 |
| 162 | Self-adaptive differential evolution based on PSO learning strategy. , 2010, , . | | 24 |

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| 163 | A genetic algorithm for the optimization of admission scheduling strategy in hospitals. , 2010, , . | | 4 |
| 164 | An Efficient Ant Colony System Based on Receding Horizon Control for the Aircraft Arrival Sequencing and Scheduling Problem. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 399-412. | 8.0 | 129 |
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| 166 | Solving the flight frequency programming problem with particle swarm optimization. , 2009, , . | | 4 |
| 167 | Orthogonal learning particle swarm optimization. , 2009, , . | | 15 |
| 168 | Adaptive Particle Swarm Optimization. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1362-1381. | 5.0 | 1,549 |
| 169 | Parallel Particle Swarm Optimization with Adaptive Asynchronous Migration Strategy. Lecture Notes in Computer Science, 2009, , 490-501. | 1.3 | 5 |
| 170 | Adaptive Particle Swarm Optimization. Lecture Notes in Computer Science, 2008, , 227-234. | 1.3 | 23 |
| 171 | Power Electronic Circuits Design: A Particle Swarm Optimization Approach. Lecture Notes in Computer Science, 2008, , 605-614. | 1.3 | 25 |
| 172 | Adaptive control of acceleration coefficients for particle swarm optimization based on clustering analysis. , 2007, , . | | 23 |