# Xiaoying Gao

## List of Publications by Year
in descending order

| 70 | 1,518 | 516561 | 377752 |
|---|---|---|---|
| papers | citations | 16 | 34 |
| | | h-index | g-index |

| 72 | 72 | 72 | 910 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | DG2: A Faster and More Accurate Differential Grouping for Large-Scale Black-Box Optimization. IEEE Transactions on Evolutionary Computation, 2017, 21, 929-942. | 7.5 | 241 |
| 2 | A survey on evolutionary machine learning. Journal of the Royal Society of New Zealand, 2019, 49, 205-228. | 1.0 | 159 |
| 3 | Surrogate-Assisted Evolutionary Multitask Genetic Programming for Dynamic Flexible Job Shop Scheduling. IEEE Transactions on Evolutionary Computation, 2021, 25, 651-665. | 7.5 | 99 |
| 4 | An investigation of ensemble combination schemes for genetic programming based hyper-heuristic approaches to dynamic job shop scheduling. Applied Soft Computing Journal, 2018, 63, 72-86. | 4.1 | 83 |
| 5 | An Efficient Feature Selection Algorithm for Evolving Job Shop Scheduling Rules With Genetic Programming. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 339-353. | 3.4 | 73 |
| 6 | A time-varying transfer function for balancing the exploration and exploitation ability of a binary PSO. Applied Soft Computing Journal, 2017, 59, 182-196. | 4.1 | 72 |
| 7 | A Hybrid Genetic Programming Algorithm for Automated Design of Dispatching Rules. Evolutionary Computation, 2019, 27, 467-496. | 2.3 | 50 |
| 8 | Correlation Coefficient-Based Recombinative Guidance for Genetic Programming Hyperheuristics in Dynamic Flexible Job Shop Scheduling. IEEE Transactions on Evolutionary Computation, 2021, 25, 552-566. | 7.5 | 43 |
| 9 | Evolving Dispatching Rules for Multi-objective Dynamic Flexible Job Shop Scheduling via Genetic Programming Hyper-heuristics. , 2019, , . | | 41 |
| 10 | A filter-based feature construction and feature selection approach for classification using Genetic Programming. Knowledge-Based Systems, 2020, 196, 105806. | 4.0 | 39 |
| 11 | Many-objective genetic programming for job-shop scheduling. , 2016, , . | | 37 |
| 12 | Evolving heuristics for Dynamic Vehicle Routing with Time Windows using genetic programming. , 2017, , . | | 37 |
| 13 | Genetic Programming Hyper-Heuristics with Vehicle Collaboration for Uncertain Capacitated Arc Routing Problems. Evolutionary Computation, 2020, 28, 563-593. | 2.3 | 33 |
| 14 | Evolutionary Multi-Objective Optimization for Web Service Location Allocation Problem. IEEE Transactions on Services Computing, 2021, 14, 458-471. | 3.2 | 33 |
| 15 | A Predictive-Reactive Approach with Genetic Programming and Cooperative Coevolution for the Uncertain Capacitated Arc Routing Problem. Evolutionary Computation, 2020, 28, 289-316. | 2.3 | 32 |
| 16 | A Cooperative Coevolution Genetic Programming Hyper-Heuristics Approach for On-Line Resource Allocation in Container-Based Clouds. IEEE Transactions on Cloud Computing, 2022, 10, 1500-1514. | 3.1 | 23 |
| 17 | Evolutionary computation for automatic Web service composition: an indirect representation approach. Journal of Heuristics, 2018, 24, 425-456. | 1.1 | 22 |
| 18 | Genetic Programming with Delayed Routing for Multiobjective Dynamic Flexible Job Shop Scheduling. Evolutionary Computation, 2021, 29, 75-105. | 2.3 | 22 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A Hybrid Genetic Programming Hyper-Heuristic Approach for Online Two-level Resource Allocation in Container-based Clouds. , 2019, , . | | 20 |
| 20 | Transfer Learning in Genetic Programming Hyper-heuristic for Solving Uncertain Capacitated Arc Routing Problem. , 2019, , . | | 19 |
| 21 | Dynamic selection of evolutionary operators based on online learning and fitness landscape analysis. Soft Computing, 2016, 20, 3889-3914. | 2.1 | 18 |
| 22 | Novel Genetic Algorithm with Dual Chromosome Representation for Resource Allocation in Container-Based Clouds. , 2019, , . | | 18 |
| 23 | Genetic Programming With Niching for Uncertain Capacitated Arc Routing Problem. IEEE Transactions on Evolutionary Computation, 2022, 26, 73-87. | 7.5 | 18 |
| 24 | In Data We Trust: A Critical Analysis of Hate Speech Detection Datasets. , 2020, , . | | 17 |
| 25 | Cooperative coevolution for large-scale global optimization based on fuzzy decomposition. Soft Computing, 2021, 25, 3593-3608. | 2.1 | 16 |
| 26 | A Survey of Evolutionary Computation for Web Service Composition: A Technical Perspective. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 538-554. | 3.4 | 14 |
| 27 | Confidence-Based Ant Colony Optimization for Capacitated Electric Vehicle Routing Problem With Comparison of Different Encoding Schemes. IEEE Transactions on Evolutionary Computation, 2022, 26, 1394-1408. | 7.5 | 14 |
| 28 | Can Stochastic Dispatching Rules Evolved by Genetic Programming Hyper-heuristics Help in Dynamic Flexible Job Shop Scheduling?. , 2019, , . | | 13 |
| 29 | A Multi-Objective Genetic Programming Hyper-Heuristic Approach to Uncertain Capacitated Arc Routing Problems. , 2020, , . | | 13 |
| 30 | Divide-and-conquer large scale capacitated arc routing problems with route cutting off decomposition. Information Sciences, 2021, 553, 208-224. | 4.0 | 12 |
| 31 | An Ontology-based Two-Stage Approach to Medical Text Classification with Feature Selection by Particle Swarm Optimisation. , 2019, , . | | 11 |
| 32 | Genetic Programming Hyper-Heuristics with Probabilistic Prototype Tree Knowledge Transfer for Uncertain Capacitated Arc Routing Problems. , 2020, , . | | 10 |
| 33 | The Thin Line Between Hate and Profanity. Lecture Notes in Computer Science, 2019, , 344-356. | 1.0 | 10 |
| 34 | Genetic Programming With Knowledge Transfer and Guided Search for Uncertain Capacitated Arc Routing Problem. IEEE Transactions on Evolutionary Computation, 2022, 26, 765-779. | 7.5 | 10 |
| 35 | A comprehensive analysis on reusability of GP-evolved job shop dispatching rules. , 2016, , . | | 9 |
| 36 | A GA-Based Approach to Fine-Tuning BERT for Hate Speech Detection. , 2020, , . | | 9 |

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| 37 | Instance-Rotation-Based Surrogate in Genetic Programming With Brood Recombination for Dynamic Job-Shop Scheduling. IEEE Transactions on Evolutionary Computation, 2023, 27, 1192-1206. | 7.5 | 9 |
| 38 | Evolutionary web service composition: A graph-based memetic algorithm. , 2016, , . | | 8 |
| 39 | A Memetic Algorithm for the Task Allocation Problem on Multi-robot Multi-point Dynamic Aggregation Missions. , 2020, , . | | 8 |
| 40 | Genetic Programming Hyper-Heuristic for Stochastic Team Orienteering Problem with Time Windows. , 2018, , . | | 7 |
| 41 | A Hybrid Memetic Approach for Fully Automated Multi-Objective Web Service Composition. , 2018, , . | | 7 |
| 42 | A fast parallel genetic programming framework with adaptively weighted primitives for symbolic regression. Soft Computing, 2020, 24, 7523-7539. | 2.1 | 7 |
| 43 | A NSGA-II-based Approach for Multi-objective Micro-service Allocation in Container-based Clouds. , 2020, , . | | 7 |
| 44 | Evolving dispatching rules for dynamic Job shop scheduling with uncertain processing times. , 2017, , . | | 6 |
| 45 | A novel methodology for architectural wind environment study by integrating CFD simulation, multiple parametric tools and evaluation criteria. Building Simulation, 2020, 13, 609-625. | 3.0 | 6 |
| 46 | Genetic Programming with Archive for Dynamic Flexible Job Shop Scheduling. , 2021, , . | | 6 |
| 47 | A Fitness-based Selection Method for Pareto Local Search for Many-Objective Job Shop Scheduling. , 2020, , . | | 5 |
| 48 | Evolving Character-Level DenseNet Architectures Using Genetic Programming. Lecture Notes in Computer Science, 2021, , 665-680. | 1.0 | 5 |
| 49 | Potential Early Identification of a Large Campylobacter Outbreak Using Alternative Surveillance Data Sources: Autoregressive Modelling and Spatiotemporal Clustering. JMIR Public Health and Surveillance, 2020, 6, e18281. | 1.2 | 5 |
| 50 | Investigation of Linear Genetic Programming for Dynamic Job Shop Scheduling. , 2021, , . | | 5 |
| 51 | A memetic algorithm-based indirect approach to web service composition. , 2016, , . | | 4 |
| 52 | Genetic Programming based Transfer Learning for Document Classification with Self-taught and Ensemble Learning. , 2019, , . | | 4 |
| 53 | Output-based transfer learning in genetic programming for document classification. Knowledge-Based Systems, 2021, 212, 106597. | 4.0 | 4 |
| 54 | Diversity-driven Knowledge Transfer for GPHH to Solve Uncertain Capacitated Arc Routing Problem. , 2020, , . | | 4 |

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| 55 | Active Sampling for Dynamic Job Shop Scheduling using Genetic Programming. , 2019, , . | | 3 |
| 56 | Genetic Programming with Algebraic Simplification for Dynamic Job Shop Scheduling. , 2021, , . | | 3 |
| 57 | A Multi-Objective Genetic Programming Approach with Self-Adaptive Î± Dominance to Uncertain Capacitated Arc Routing Problem. , 2021, , . | | 2 |
| 58 | Genetic Programming Hyper-heuristic with Cluster Awareness for Stochastic Team Orienteering Problem with Time Windows. , 2020, , . | | 2 |
| 59 | Fake News Detection Using Multiple-View Text Representation. Lecture Notes in Computer Science, 2021, , 100-112. | 1.0 | 2 |
| 60 | Semantic Linear Genetic Programming for Symbolic Regression. IEEE Transactions on Cybernetics, 2024, 54, 1321-1334. | 6.2 | 2 |
| 61 | Look-Ahead Genetic Programming for Uncertain Capacitated Arc Routing Problem. , 2021, , . | | 1 |
| 62 | Surrogate-Assisted Genetic Programming with Diverse Transfer for the Uncertain Capacitated Arc Routing Problem. , 2021, , . | | 1 |
| 63 | Substituting clinical features using synthetic medical phrases: Medical text data augmentation techniques. Artificial Intelligence in Medicine, 2021, 120, 102167. | 3.8 | 1 |
| 64 | A Dictionary-based Oversampling Approach to Clinical Document Classification on Small and Imbalanced Dataset. , 2020, , . | | 1 |
| 65 | What Emotion Is Hate? Incorporating Emotion Information into the Hate Speech Detection Task. Lecture Notes in Computer Science, 2021, , 273-286. | 1.0 | 1 |
| 66 | Knowledge Transfer Genetic Programming With Auxiliary Population for Solving Uncertain Capacitated Arc Routing Problem. IEEE Transactions on Evolutionary Computation, 2023, 27, 311-325. | 7.5 | 1 |
| 67 | Guest editorial: special issue on automated design and adaptation of heuristics for scheduling and combinatorial optimisation. Genetic Programming and Evolvable Machines, 2018, 19, 5-7. | 1.5 | 0 |
| 68 | A GPHH with Surrogate-assisted Knowledge Transfer for Uncertain Capacitated Arc Routing Problem. , 2020, , . | | 0 |
| 69 | An Improved Multi-Objective Genetic Programming Hyper-Heuristic with Archive for Uncertain Capacitated Arc Routing Problem. , 2021, , . | | 0 |
| 70 | An Investigation on Multi-Objective Fish Breeding Program Design. , 2021, , . | | 0 |