

Xiaoping Li

List of Publications by Year in descending order

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156
papers

2,187
citations

185998

28
h-index

288905

40
g-index

157
all docs

157
docs citations

157
times ranked

1767
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient composite heuristics for total flowtime minimization in permutation flow shops†. <i>Omega</i> , 2009, 37, 155-164.	3.6	129
2	Hybrid genetic algorithm for permutation flowshop scheduling problems with total flowtime minimization. <i>European Journal of Operational Research</i> , 2009, 196, 869-876.	3.5	101
3	Deadline division-based heuristic for cost optimization in workflow scheduling. <i>Information Sciences</i> , 2009, 179, 2562-2575.	4.0	89
4	A delay-based dynamic scheduling algorithm for bag-of-task workflows with stochastic task execution times in clouds. <i>Future Generation Computer Systems</i> , 2017, 71, 57-72.	4.9	70
5	Multi-granularity resource virtualization and sharing strategies in cloud manufacturing. <i>Journal of Network and Computer Applications</i> , 2014, 46, 72-82.	5.8	69
6	Transplantation of hPSC-derived pericyte-like cells promotes functional recovery in ischemic stroke mice. <i>Nature Communications</i> , 2020, 11, 5196.	5.8	63
7	Heuristics for Provisioning Services to Workflows in XaaS Clouds. <i>IEEE Transactions on Services Computing</i> , 2016, 9, 250-263.	3.2	60
8	A Survey on Sparse Learning Models for Feature Selection. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 1642-1660.	6.2	57
9	Human Mesenchymal Stem Cell-Treated Regulatory CD23 ⁺ CD43 ⁺ B Cells Alleviate Intestinal Inflammation. <i>Theranostics</i> , 2019, 9, 4633-4647.	4.6	52
10	Heuristic for no-wait flow shops with makespan minimization. <i>International Journal of Production Research</i> , 2008, 46, 2519-2530.	4.9	49
11	Estimation of distribution algorithm for permutation flow shops with total flowtime minimization. <i>Computers and Industrial Engineering</i> , 2011, 60, 706-718.	3.4	49
12	Solving the multi-objective flowline manufacturing cell scheduling problem by hybrid harmony search. <i>Expert Systems With Applications</i> , 2015, 42, 1409-1417.	4.4	49
13	Scheduling Stochastic Multi-Stage Jobs to Elastic Hybrid Cloud Resources. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2018, 29, 1401-1415.	4.0	48
14	A Grid-Based Inverted Generational Distance for Multi/Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2021, 25, 21-34.	7.5	45
15	Effective genetic algorithm for resource-constrained project scheduling with limited preemptions. <i>International Journal of Machine Learning and Cybernetics</i> , 2011, 2, 55-65.	2.3	41
16	Weighted General Group Lasso for Gene Selection in Cancer Classification. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2860-2873.	6.2	41
17	Complete local search with limited memory algorithm for no-wait job shops to minimize makespan. <i>European Journal of Operational Research</i> , 2009, 198, 378-386.	3.5	38
18	Elastic Resource Provisioning for Cloud Workflow Applications. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017, 14, 1195-1210.	3.4	37

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19	An iterated greedy heuristic for no-wait flow shops with sequence dependent setup times, learning and forgetting effects. <i>Information Sciences</i> , 2018, 453, 408-425.	4.0	37
20	Enantioselective Synthesis of Benzofuran-Fused <i>N</i> -Heterocycles via Chiral Squaramide Catalyzed [4 + 2] Cyclization of Azadienes with Azlactones. <i>Journal of Organic Chemistry</i> , 2019, 84, 8035-8045.	1.7	36
21	An Effective Heuristic for On-line Tenant Placement Problem in SaaS. , 2010, , .		34
22	Transient fault aware application partitioning computational offloading algorithm in microservices based mobile cloudlet networks. <i>Computing (Vienna/New York)</i> , 2020, 102, 105-139.	3.2	34
23	Accelerated tabu search for no-wait flowshop scheduling problem with maximum lateness criterion. <i>European Journal of Operational Research</i> , 2010, 206, 64-72.	3.5	32
24	Cloud Workflow Scheduling with Deadlines and Time Slot Availability. <i>IEEE Transactions on Services Computing</i> , 2018, 11, 329-340.	3.2	32
25	Adaptive Hybrid Algorithms for the Sequence-Dependent Setup Time Permutation Flow Shop Scheduling Problem. <i>IEEE Transactions on Automation Science and Engineering</i> , 2012, 9, 578-595.	3.4	31
26	ElasticSim: A Toolkit for Simulating Workflows with Cloud Resource Runtime Auto-Scaling and Stochastic Task Execution Times. <i>Journal of Grid Computing</i> , 2017, 15, 257-272.	2.5	31
27	Comparative Secretome Analysis Reveals Perturbation of Host Secretion Pathways by a Hypovirus. <i>Scientific Reports</i> , 2016, 6, 34308.	1.6	30
28	Heuristics for periodical batch job scheduling in a MapReduce computing framework. <i>Information Sciences</i> , 2016, 326, 119-133.	4.0	30
29	An Iterated Greedy Heuristic for Mixed No-Wait Flowshop Problems. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1553-1566.	6.2	29
30	An effective heuristic for project scheduling with resource availability cost. <i>European Journal of Operational Research</i> , 2017, 257, 746-762.	3.5	28
31	A bi-directional flow-rack automated storage and retrieval system for unit-load warehouses. <i>International Journal of Production Research</i> , 2015, 53, 4176-4188.	4.9	23
32	Characterization and Therapeutic Application of Mesenchymal Stem Cells with Neuromesodermal Origin from Human Pluripotent Stem Cells. <i>Theranostics</i> , 2019, 9, 1683-1697.	4.6	22
33	A neurodynamic optimization approach to supervised feature selection via fractional programming. <i>Neural Networks</i> , 2021, 136, 194-206.	3.3	22
34	Critical Path-Based Iterative Heuristic for Workflow Scheduling in Utility and Cloud Computing. <i>Lecture Notes in Computer Science</i> , 2013, , 207-221.	1.0	21
35	Resource Provisioning for Task-Batch Based Workflows with Deadlines in Public Clouds. <i>IEEE Transactions on Cloud Computing</i> , 2019, 7, 814-826.	3.1	21
36	Energy-Aware Cloud Workflow Applications Scheduling With Geo-Distributed Data. <i>IEEE Transactions on Services Computing</i> , 2022, 15, 891-903.	3.2	21

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37	Energy Utilization Task Scheduling for MapReduce in Heterogeneous Clusters. IEEE Transactions on Services Computing, 2022, 15, 931-944.	3.2	20
38	Organocatalytic 1,4-Addition of Azadienes with 3-Homoacyl Coumarins toward Highly Enantioenriched Benzofuran Coumarin Skeletons. Journal of Organic Chemistry, 2020, 85, 12175-12186.	1.7	19
39	A Hybrid Fault-Tolerant Scheduling for Deadline-Constrained Tasks in Cloud Systems. IEEE Transactions on Services Computing, 2022, 15, 1371-1384.	3.2	18
40	Trajectory Scheduling Methods for minimizing total tardiness in a flowshop. Operations Research Perspectives, 2015, 2, 13-23.	1.2	16
41	An Exact Algorithm for the Shortest Path Problem With Position-Based Learning Effects. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 3037-3049.	5.9	16
42	Price forecasting for spot instances in Cloud computing. Future Generation Computer Systems, 2018, 79, 38-53.	4.9	16
43	Resource Renting for Periodical Cloud Workflow Applications. IEEE Transactions on Services Computing, 2020, 13, 130-143.	3.2	16
44	Performance Analysis for Heterogeneous Cloud Servers Using Queueing Theory. IEEE Transactions on Computers, 2020, 69, 563-576.	2.4	16
45	Scheduling Periodical Multi-Stage Jobs With Fuzziness to Elastic Cloud Resources. IEEE Transactions on Parallel and Distributed Systems, 2020, 31, 2819-2833.	4.0	16
46	A Resource Virtualization Mechanism for Cloud Manufacturing Systems. Lecture Notes in Business Information Processing, 2012, , 46-59.	0.8	16
47	MapReduce Based Method for Big Data Semantic Clustering. , 2013, , .		15
48	Task scheduling for MapReduce in heterogeneous networks. Cluster Computing, 2016, 19, 197-210.	3.5	14
49	A Metadata Inference Method for Building Automation Systems With Limited Semantic Information. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2107-2119.	3.4	14
50	A resource & capability virtualization method for cloud manufacturing systems. , 2011, , .		13
51	A memory-based complete local search method with variable neighborhood structures for no-wait job shops. International Journal of Advanced Manufacturing Technology, 2016, 87, 1401-1408.	1.5	13
52	An enhance multimodal multiobjective optimization genetic algorithm with special crowding distance for pulmonary hypertension feature selection. Computers in Biology and Medicine, 2022, 146, 105536.	3.9	13
53	Heuristic for no-wait flow shops with makespan minimization based on total idle-time increments. Science in China Series F: Information Sciences, 2008, 51, 896-909.	1.1	12
54	Granulation-based resource classification in Cloud Manufacturing. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1258-1270.	1.5	12

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55	Sequencing the storages and retrievals for flow-rack automated storage and retrieval systems with duration-of-stay storage policy. International Journal of Production Research, 2016, 54, 984-998.	4.9	12
56	Methods for Scheduling Problems Considering Experience, Learning, and Forgetting Effects. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 743-754.	5.9	12
57	A Bi-Objective Constrained Robust Gate Assignment Problem: Formulation, Instances and Algorithm. IEEE Transactions on Cybernetics, 2021, 51, 4488-4500.	6.2	12
58	Time-Cost Tradeoff Dynamic Scheduling Algorithm for Workflows in Grids. , 2006, , .		11
59	Iterative search method for total flowtime minimization no-wait flowshop problem. International Journal of Machine Learning and Cybernetics, 2015, 6, 747-761.	2.3	11
60	Feature Selection With Maximal Relevance and Minimal Supervised Redundancy. IEEE Transactions on Cybernetics, 2023, 53, 707-717.	6.2	11
61	Idle block based methods for cloud workflow scheduling with preemptive and non-preemptive tasks. Future Generation Computer Systems, 2018, 89, 659-669.	4.9	10
62	An Effective Meta-Heuristic for No-Wait Job Shops to Minimize Makespan. IEEE Transactions on Automation Science and Engineering, 2011, , .	3.4	9
63	Group Scheduling With Nonperiodical Maintenance and Deteriorating Effects. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2860-2872.	5.9	9
64	Scheduling Stochastic Multi-stage Jobs on Elastic Computing Services in Hybrid Clouds. , 2016, , .		8
65	Hybrid Resource Provisioning for Cloud Workflows with Malleable and Rigid Tasks. IEEE Transactions on Cloud Computing, 2021, 9, 1089-1102.	3.1	8
66	Objective Increment Based Iterative Greedy Heuristic for No-Wait Flowshops with Total Flowtime Minimization. Jisuanji Xuebao/Chinese Journal of Computers, 2009, 32, 132-141.	0.3	8
67	A hybrid genetic algorithm for resource-constrained multi-project scheduling problem with resource transfer time. , 2012, , .		7
68	A Quantum-inspired Iterated Greedy algorithm for permutation flowshops in a collaborative manufacturing environment. International Journal of Computer Integrated Manufacturing, 2012, 25, 924-933.	2.9	7
69	Quay crane scheduling with dual cycling. Engineering Optimization, 2015, 47, 1343-1360.	1.5	7
70	CRISPR/Cas9-mediated β -globin gene knockout in rabbits recapitulates human β -thalassemia. Journal of Biological Chemistry, 2021, 296, 100464.	1.6	7
71	A Dynamic Resource Allocation Algorithm for Database-as-a-Service. , 2011, , .		6
72	A divide and conquer-based greedy search for two-machine no-wait job shop problems with makespan minimisation. International Journal of Production Research, 2012, 50, 2692-2704.	4.9	6

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73	Bi-direction Adjust Heuristic for Workflow Scheduling in Clouds. , 2013, , .		6
74	Cooperative discrete particle swarms for multi-mode resource-constrained projects. , 2013, , .		6
75	Cloud workflow scheduling with hybrid resource provisioning. Journal of Supercomputing, 2018, 74, 6529-6553.	2.4	6
76	An Efficient Method for No-Wait Flow Shop Scheduling to Minimize Makespan. , 2006, , .		5
77	Dynamic programming for services scheduling with start time constraints in distributed collaborative manufacturing systems. , 2012, , .		5
78	An enhanced greedy random adaptive search procedure with path-relinking for no-wait flowshop problem with setup times. Integrated Computer-Aided Engineering, 2015, 23, 51-68.	2.5	5
79	Energy-Aware Task Scheduling of MapReduce Cluster. , 2015, , .		5
80	Scheduling for multi-stage applications with scalable virtual resources in cloud computing. International Journal of Machine Learning and Cybernetics, 2017, 8, 1633-1641.	2.3	5
81	Scheduling Microservice-based Workflows to Containers in On-demand Cloud Resources. , 2021, , .		5
82	Scheduling method with adaptive learning for microservice workflows with hybrid resource provisioning. International Journal of Machine Learning and Cybernetics, 2021, 12, 3037-3048.	2.3	5
83	Multi-Queue Request Scheduling for Profit Maximization in IaaS Clouds. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2838-2851.	4.0	5
84	A RFID-based dual-command method for unit-load warehouse systems. , 2011, , .		4
85	MapReduce Task Scheduling in Heterogeneous Geo-Distributed Data Centers. IEEE Transactions on Services Computing, 2022, 15, 3317-3329.	3.2	4
86	A quantumâ€inspired cuckoo coâ€evolutionary algorithm for noâ€wait flow shop scheduling. IET Collaborative Intelligent Manufacturing, 2021, 3, 105-118.	1.9	4
87	A Group Mining Method for Big Data on Distributed Vehicle Trajectories in WAN. International Journal of Distributed Sensor Networks, 2015, 11, 756107.	1.3	4
88	Performance Analysis and Optimization on Scheduling Stochastic Cloud Service Requests: A Survey. IEEE Transactions on Network and Service Management, 2022, 19, 3587-3602.	3.2	4
89	A fast method for heuristics in large-scale flow shop scheduling. Tsinghua Science and Technology, 2006, 11, 12-18.	4.1	3
90	Efficient iterated greedy algorithm to minimize makespan for the no-wait flowshop with sequence dependent setup times. , 2012, , .		3

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91	Shuffled Frog Leaping Algorithm for a Bi-objective No-Idle Permutation Flow Shop. , 2013, , .		3
92	Cloud workflow scheduling with on-demand and spot block instances. , 2017, , .		3
93	A Neurodynamic Approach to L_{∞} -Constrained Optimization. , 2020, , .		3
94	Scheduling Spark Tasks With Data Skew and Deadline Constraints. IEEE Access, 2021, 9, 2793-2804.	2.6	3
95	Cost Optimization Method for Workflows with Deadline Constraints in Grids. , 2007, , .		2
96	Similarity based ant-colony algorithm for permutation flowshop scheduling problems with total flowtime minimization. , 2009, , .		2
97	A Quantum-inspired Iterated Greedy algorithm for permutation flowshops with total flowtime minimization. , 2010, , .		2
98	A New Approach for Resource-Constrained Multi-Project Scheduling. , 2010, , .		2
99	A two-stage composite heuristic for dual cycling quay crane scheduling problem. , 2011, , .		2
100	An adaptive intelligent method for manufacturing process optimization in steelworks. , 2013, , .		2
101	A Dynamic Resource Balance Algorithm for Multi-tenant Placement Problem in SaaS. , 2013, , .		2
102	Hybrid harmony search for the flowline manufacturing cell scheduling problem. , 2014, , .		2
103	Hybrid Resource Provisioning for Workflow Scheduling in Cloud Computing. Lecture Notes in Computer Science, 2016, , 34-46.	1.0	2
104	Elastic and flexible multi-stage task scheduling with deadline-constraint in clouds. , 2016, , .		2
105	Hidden Markov Model Based Spot Price Prediction for Cloud Computing. , 2017, , .		2
106	A Fast Algorithm for Finding the Bi-objective Shortest Path in Complicated Networks. , 2018, , .		2
107	Cost Minimization for Service Providers with Impatient Consumers in Cloud Computing. , 2019, , .		2
108	Methods for virtual machine scheduling with uncertain execution times in cloud computing. International Journal of Machine Learning and Cybernetics, 2019, 10, 325-335.	2.3	2

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109	Hybrid Cloud Workflow Scheduling Method With Privacy Data. IEEE Access, 2020, 8, 211540-211552.	2.6	2
110	Hybrid Heuristic for m-Machine No-Wait Flowshops to Minimize Total Completion Time. Lecture Notes in Computer Science, 2008, , 192-203.	1.0	2
111	Failure-aware Elastic Cloud Workflow Scheduling. IEEE Transactions on Services Computing, 2022, , 1-14.	3.2	2
112	A Hybrid QoS-Based Algorithm for Independent Tasks Scheduling in Grid. , 2006, , .		1
113	A new hybrid genetic algorithm for the bi-criteria no-wait flowshop scheduling problem with makespan and total flow time minimization. , 2008, , .		1
114	Iterative local search algorithm for no-wait flowshop scheduling problems to minimize makespan. , 2008, , .		1
115	Composite heuristic algorithm for permutation flowshop scheduling problems with total flowtime minimization. , 2008, , .		1
116	A SOA Based Framework of Service Ability Description and Selection Methods for Application Integration in Manufacturing Domain. , 2009, , .		1
117	An evolutionary algorithm for no-wait flowshop problems with flowtime minimization. , 2011, , .		1
118	Heuristic methods for minimizing resource availability costs in multi-mode project scheduling. , 2012, , .		1
119	An industrial case study of feature-based in-process workpiece modeling. , 2012, , .		1
120	A memory and variable neighborhood structure based complete local search for the no-wait job shop problem. , 2012, , .		1
121	A multilevel modeling framework for semantic representation of cloud manufacturing resources. , 2013, , .		1
122	Integrated Iterated Local Search for the Permutation Flowshop Problem with Tardiness Minimization. , 2013, , .		1
123	Iterative algorithms for no-wait flowshop problems with sequence-dependent setup times. , 2013, , .		1
124	Deteriorating and position-based learning effects on some single-machine scheduling problems. , 2014, , .		1
125	A Trust Constrained Workflow Scheduling Method in Cloud Computing. , 2017, , .		1
126	Distributed task scheduling with security and outage constraints in MapReduce. , 2017, , .		1

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127	Feature Selection via Adaptive Spectral Clustering based on Joint Mutual Information. , 2019, , .		1
128	Allocating MapReduce workflows with deadlines to heterogeneous servers in a cloud data center. Service Oriented Computing and Applications, 2020, 14, 101-118.	1.3	1
129	Iterative Heuristics for Permutation Flow Shops with Total Flowtime Minimization. , 2006, , 349-356.		1
130	Energy Minimization for Cloud Services with Stochastic Requests. Lecture Notes in Computer Science, 2020, , 133-148.	1.0	1
131	A Composite Algorithm for Total Completion-Time Minimization in Large Flow Shop Scheduling. , 2006, , .		0
132	Heuristics for permutation flow shops to minimize total flowtime. , 2006, , .		0
133	Web Service Based Method for Large Scale Flow Shops with Flowtime Minimization. , 2007, , .		0
134	Hybrid Heuristic for Total Flowtime Minimization in No-wait Flow Shops. , 2007, , .		0
135	Multi-Agent Based Framework for Dynamic Scheduling System. , 2007, , .		0
136	Objective increment based hybrid GA for no-wait flowshops. , 2008, , .		0
137	Meta-heuristic for no-wait job shops with makespan minimization. , 2008, , .		0
138	Hybrid genetic-VNS algorithm with total flowtime minimization for the no-wait flowshop problem. , 2008, , .		0
139	An effective evolutionary algorithm for Pre-emptive Resource-Constrained Project Scheduling problems. , 2010, , .		0
140	SOA-based method for cooperative tasks distribution in large-scale optimization environments. , 2010, , .		0
141	Special Issue on Collaborative Manufacturing and Supply Chains. International Journal of Computer Integrated Manufacturing, 2012, 25, 853-854.	2.9	0
142	An improved harmony search algorithm for blocking job shop to minimize makespan. , 2012, , .		0
143	Double Girder Bridge Crane with Double Cycling: Scheduling Strategy and Performance Evaluation. Journal of Applied Mathematics, 2014, 2014, 1-12.	0.4	0
144	Group scheduling for complex products with time-dependent deteriorating effect. , 2015, , .		0

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145	Cloud workflow scheduling with deadline and time slots constraints. , 2015, , .		0
146	Resources Renting with Reserved and On-Demand Instances for Cloud Workflow Applications. , 2016, , .		0
147	Dynamic job scheduling on scalable cloud resources. , 2017, , .		0
148	Trust constrained workflow scheduling in cloud computing. , 2017, , .		0
149	A Metaheuristic for No-wait Flowshops with Variable Processing Times. , 2018, , .		0
150	A Client/Server Based Parallel Genetic Algorithm for Parallel Machines Scheduling Problem with Penalties. Advanced Science Letters, 2012, 6, 538-541.	0.2	0
151	Basic Research of Statistical Learning with Trust Theory Based Rough Sample. Advanced Science Letters, 2012, 6, 736-739.	0.2	0
152	Semantic Web Services based Data Exchange for Distributed and Heterogeneous Systems. , 2008, , 315-327.		0
153	Dynamic Heuristics for Time and Cost Reduction in Grid Workflows. , 2006, , 499-508.		0
154	State space model and queuing network based Cloud Resource Provisioning for Meshed Web Systems. IEEE Transactions on Parallel and Distributed Systems, 2022, , 1-1.	4.0	0
155	Periodically Activating and Sleeping Devices in Internet of Things. , 2022, , .		0
156	Task Scheduling for Spark Applications With Data Affinity on Heterogeneous Clusters. IEEE Internet of Things Journal, 2022, 9, 21792-21801.	5.5	0