

Mitsuo Gen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

125
papers

5,519
citations

35
h-index

73
g-index

137
ext. papers

6,253
ext. citations

3.9
avg, IF

5.95
L-index

#	Paper	IF	Citations
125	Fuzzy Programming of Dual Recycling Channels of Sustainable Multi-objective Waste Electrical and Electronic Equipment (WEEE) based on Triple Bottom Line (TBL) Theory. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 10231-10244	2.5	1
124	Sustainable Closed-Loop Supply Chain Design Problem: A Hybrid Genetic Algorithm Approach. <i>Mathematics</i> , 2020 , 8, 84	2.3	13
123	Advances in Hybrid Genetic Algorithms with Learning and GPU for Scheduling Problems: Brief Survey and Case Study. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 322-339	0.4	
122	Hybrid multiobjective evolutionary algorithm with fast sampling strategy-based global search and route sequence difference-based local search for VRPTW. <i>Expert Systems With Applications</i> , 2020 , 145, 113151	7.8	9
121	Research on green closed-loop supply chain with the consideration of double subsidy in e-commerce environment. <i>Computers and Industrial Engineering</i> , 2020 , 149, 106779	6.4	20
120	Advances in Hybrid EDA for Manufacturing Scheduling with Uncertainty: Part II. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2019 , 955-968	0.3	1
119	Advances in Hybrid EDA for Manufacturing Scheduling with Uncertainty: Part I. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2019 , 939-954	0.3	2
118	Accelerating genetic algorithms with GPU computing: A selective overview. <i>Computers and Industrial Engineering</i> , 2019 , 128, 514-525	6.4	30
117	Large scale flexible scheduling optimization by a distributed evolutionary algorithm. <i>Computers and Industrial Engineering</i> , 2019 , 128, 894-904	6.4	25
116	A bi-objective genetic algorithm for intelligent rehabilitation scheduling considering therapy precedence constraints. <i>Journal of Intelligent Manufacturing</i> , 2018 , 29, 973-988	6.7	17
115	Hybrid evolutionary optimisation with learning for production scheduling: state-of-the-art survey on algorithms and applications. <i>International Journal of Production Research</i> , 2018 , 56, 193-223	7.8	31
114	Multi-stage Logistics Inventory for Automobile Manufacturing by Random Key-Based GA 2018 , 768-790		
113	Scheduling Problem for Allocating Worker with Class-Type Skill in JSP by Hybrid Genetic Algorithm 2018 , 140-150		
112	Recent advances in hybrid priority-based genetic algorithms for logistics and SCM network design. <i>Computers and Industrial Engineering</i> , 2018 , 125, 394-412	6.4	16
111	Embedding ant system in genetic algorithm for re-entrant hybrid flow shop scheduling problems with time window constraints. <i>Journal of Intelligent Manufacturing</i> , 2017 , 28, 1915-1931	6.7	26
110	Effective multiobjective EDA for bi-criteria stochastic job-shop scheduling problem. <i>Journal of Intelligent Manufacturing</i> , 2017 , 28, 833-845	6.7	26
109	Recent advances in hybrid evolutionary algorithms for multiobjective manufacturing scheduling. <i>Computers and Industrial Engineering</i> , 2017 , 112, 616-633	6.4	42

108	Adaptive Hybrid Genetic Algorithm with Modified Cuckoo Search for Reliability Optimization Problem. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 353-365	0.4	0
107	Advances in Hybrid Metaheuristics for Stochastic Manufacturing Scheduling: Part I Models and Methods. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 1063-1077	0.4	2
106	Logistics network optimization considering balanced allocation and vehicle routing. <i>Maritime Economics and Logistics</i> , 2016 , 18, 41-60	2.6	3
105	A multi-objective hybrid genetic algorithm to minimize the total cost and delivery tardiness in a reverse logistics. <i>Multimedia Tools and Applications</i> , 2015 , 74, 9067-9085	2.5	31
104	Metaheuristics optimization approaches for two-stage reentrant flexible flow shop with blocking constraint. <i>Expert Systems With Applications</i> , 2015 , 42, 2395-2410	7.8	27
103	A Co-cooperative Evolutionary Algorithm for Flexible Scheduling Problem under Uncertainty. <i>Procedia Computer Science</i> , 2015 , 61, 515-520	1.6	0
102	Multiobjective Hybrid Genetic Algorithms for Manufacturing Scheduling: Part I Models and Algorithms. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 3-25	0.4	4
101	Multiobjective Hybrid Genetic Algorithms for Manufacturing Scheduling: Part II Case Studies of HDD and TFT-LCD. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 27-54	0.4	4
100	An Algorithm of Multi-Subpopulation Parameters With Hybrid Estimation of Distribution for Semiconductor Scheduling With Constrained Waiting Time. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2015 , 28, 353-366	2.6	25
99	An effective Markov network based EDA for flexible job shop scheduling problems under uncertainty 2014 ,		3
98	An Effective Multi-objective EDA for Robust Resource Constrained Project Scheduling with Uncertain Durations. <i>Procedia Computer Science</i> , 2014 , 36, 571-578	1.6	12
97	A Multiobjective Hybrid Genetic Algorithm for TFT-LCD Module Assembly Scheduling. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014 , 11, 692-705	4.9	44
96	Re-entrant flow shop scheduling problem with time windows using hybrid genetic algorithm based on auto-tuning strategy. <i>International Journal of Production Research</i> , 2014 , 52, 2612-2629	7.8	36
95	Hybrid estimation of distribution algorithm with multiple subpopulations for semiconductor manufacturing scheduling problem with limited waiting-time constraint 2014 ,		1
94	Hybrid Multiobjective Evolutionary Algorithm for Assembly Line Balancing Problem with Stochastic Processing Time. <i>Procedia Computer Science</i> , 2014 , 36, 587-592	1.6	4
93	Multiobjective evolutionary algorithm for manufacturing scheduling problems: state-of-the-art survey. <i>Journal of Intelligent Manufacturing</i> , 2014 , 25, 849-866	6.7	133
92	Recent Advances in Multiobjective Genetic Algorithms for Manufacturing Scheduling Problems. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 815-831	0.4	
91	Adaptive genetic algorithm for solving sugarcane loading stations with multi-facility services problem. <i>Computers and Electronics in Agriculture</i> , 2013 , 98, 85-99	6.5	30

90	Advances in Multiobjective Hybrid Genetic Algorithms for Intelligent Manufacturing and Logistics Systems. <i>Lecture Notes in Computer Science</i> , 2013 , 379-389	0.9	
89	Network modeling and evolutionary optimization for scheduling in manufacturing. <i>Journal of Intelligent Manufacturing</i> , 2012 , 23, 2237-2253	6.7	31
88	A novel bi-vector encoding genetic algorithm for the simultaneous multiple resources scheduling problem. <i>Journal of Intelligent Manufacturing</i> , 2012 , 23, 2255-2270	6.7	37
87	A Hybrid EA for Reactive Flexible Job-shop Scheduling. <i>Procedia Computer Science</i> , 2012 , 12, 110-115	1.6	9
86	Building a reusable reverse logistics model and its optimization considering the decision of backorder/next arrival of goods. <i>Electronics and Communications in Japan</i> , 2012 , 95, 42-55	0.4	2
85	A genetic algorithm based approach to vehicle routing problem with simultaneous pick-up and deliveries. <i>Computers and Industrial Engineering</i> , 2012 , 62, 755-761	6.4	133
84	Multiobjective Genetic Algorithm for Scheduling Problems in Manufacturing Systems. <i>Industrial Engineering and Management Systems</i> , 2012 , 11, 310-330	2.5	10
83	Multi-objective Job Shop Rescheduling with Evolutionary Algorithm. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2011 , 131, 674-681	0.1	1
82	Building of Reusable Reverse Logistics Model and its Optimization Considering the Decision of Backorder or Next Arrival of Goods. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2011 , 131, 1009-1019	0.1	
81	Introduction to Evolutionary Algorithms. <i>Decision Engineering</i> , 2010 ,	0.1	187
80	Optimal Design of Two-stage Logistics Network Considered Inventory by Boltzmann Random Key-based GA. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2010 , 5, 195-202	1	3
79	Multistage-Based Genetic Algorithm for Flexible Job-Shop Scheduling Problem. <i>Studies in Computational Intelligence</i> , 2009 , 183-196	0.8	35
78	Solution method for multi-product two-stage logistics network with constraints on delivery route. <i>Electronics and Communications in Japan</i> , 2009 , 92, 18-24	0.4	1
77	A steady-state genetic algorithm for multi-product supply chain network design. <i>Computers and Industrial Engineering</i> , 2009 , 56, 521-537	6.4	168
76	Network model and optimization of reverse logistics by hybrid genetic algorithm. <i>Computers and Industrial Engineering</i> , 2009 , 56, 951-964	6.4	130
75	Evolutionary techniques for optimization problems in integrated manufacturing system: State-of-the-art-survey. <i>Computers and Industrial Engineering</i> , 2009 , 56, 779-808	6.4	51
74	Integrated multistage logistics network design by using hybrid evolutionary algorithm. <i>Computers and Industrial Engineering</i> , 2009 , 56, 854-873	6.4	55
73	Hybrid Genetic Algorithm for Designing Logistics Network, VRP and AGV Problems. <i>Studies in Computational Intelligence</i> , 2009 , 123-139	0.8	3

72	Designing a multistage reverse logistics network problem by hybrid genetic algorithm 2008 ,		2
71	A Multi-Stage Reverse Logistics Network Problem by Using Hybrid Priority-Based Genetic Algorithm. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008 , 128, 450-455	0.1	3
70	A hybrid genetic and variable neighborhood descent algorithm for flexible job shop scheduling problems. <i>Computers and Operations Research</i> , 2008 , 35, 2892-2907	4.6	342
69	Applications of Evolutionary Technology to Information and Communication Systems: State-of-the Art Survey. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008 , 128, 340-345	0.1	2
68	Solution Method of Multi-Product Two-Stage Logistics Problem with Constraints of Delivery Course. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2008 , 128, 456-461	0.1	1
67	A hybrid of genetic algorithm and bottleneck shifting for multiobjective flexible job shop scheduling problems. <i>Computers and Industrial Engineering</i> , 2007 , 53, 149-162	6.4	137
66	Nonlinear fixed charge transportation problem by spanning tree-based genetic algorithm. <i>Computers and Industrial Engineering</i> , 2007 , 53, 290-298	6.4	79
65	2007 ,		6
64	A genetic algorithm for two-stage transportation problem using priority-based encoding. <i>OR Spectrum</i> , 2006 , 28, 337-354	1.9	171
63	A genetic algorithm approach for multi-objective optimization of supply chain networks. <i>Computers and Industrial Engineering</i> , 2006 , 51, 196-215	6.4	365
62	Effective genetic approach for optimizing advanced planning and scheduling in flexible manufacturing system 2006 ,		18
61	Genetic Algorithms and Their Applications 2006 , 749-773		9
60	A hybrid of genetic algorithm and bottleneck shifting for flexible job shop scheduling problemA hybrid of genetic algorithm and bottleneck shifting for flexible job shop scheduling problem 2006 ,		7
59	Soft computing approach for reliability optimization: State-of-the-art survey. <i>Reliability Engineering and System Safety</i> , 2006 , 91, 1008-1026	6.3	154
58	A genetic algorithm approach to the balanced allocation of customers to multiple warehouses with varying capacities. <i>International Journal of Logistics Research and Applications</i> , 2005 , 8, 181-192	3.8	11
57	Recent network design techniques using evolutionary algorithms. <i>International Journal of Production Economics</i> , 2005 , 98, 251-261	9.3	55
56	Hybrid genetic algorithm for multi-time period production/distribution planning. <i>Computers and Industrial Engineering</i> , 2005 , 48, 799-809	6.4	133
55	1113 Transportation Problem with Nonlinear Side Constraints : Two Genetic Algorithm-based Approaches. <i>The Proceedings of Conference of Hokuriku-Shinetsu Branch</i> , 2005 , 2005.42, 371-372	0	

54	Network-based hybrid genetic algorithm for scheduling in FMS environments. <i>Artificial Life and Robotics</i> , 2004 , 8, 67-76	0.6	12
53	Solving exclusionary side constrained transportation problem by using a hybrid spanning tree-based genetic algorithm. <i>Journal of Intelligent Manufacturing</i> , 2003 , 14, 389-399	6.7	31
52	Various hybrid methods based on genetic algorithm with fuzzy logic controller. <i>Journal of Intelligent Manufacturing</i> , 2003 , 14, 401-419	6.7	19
51	A genetic algorithm approach to the bi-criteria allocation of customers to warehouses. <i>International Journal of Production Economics</i> , 2003 , 86, 35-45	9.3	83
50	EVOLUTIONARY NETWORK DESIGN: HYBRID GENETIC ALGORITHMS APPROACH. <i>International Journal of Computational Intelligence and Applications</i> , 2003 , 03, 357-380	1.2	8
49	A Method of Fuzzy Multi-objective Nonlinear Programming with GUB Structure by Hybrid Genetic Algorithm. <i>International Journal of Smart Engineering System Design</i> , 2003 , 5, 281-288		15
48	The balanced allocation of customers to multiple distribution centers in the supply chain network: a genetic algorithm approach. <i>Computers and Industrial Engineering</i> , 2002 , 43, 251-261	6.4	148
47	Study on multi-stage logistic chain network: a spanning tree-based genetic algorithm approach. <i>Computers and Industrial Engineering</i> , 2002 , 43, 299-314	6.4	214
46	Network design techniques using adapted genetic algorithms. <i>Advances in Engineering Software</i> , 2001 , 32, 731-744	3.6	50
45	A Genetic Algorithm for Solving Bicriteria Network Topology Design Problems. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 2000 , 12, 43-54		5
44	Bicriteria Knapsack Problem with GUB Structure by Hybrid Genetic Algorithm. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 2000 , 12, 531-538		1
43	Improved genetic algorithm for generalized transportation problem. <i>Artificial Life and Robotics</i> , 2000 , 4, 96-102	0.6	8
42	Spanning Tree-based Genetic Algorithm for Bicriteria Fixed Charge Transportation Problem. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 2000 , 12, 295-303		9
41	A tutorial survey of job-shop scheduling problems using genetic algorithms: Part II. Hybrid genetic search strategies. <i>Computers and Industrial Engineering</i> , 1999 , 37, 51-55	6.4	49
40	GA-based reliability design: State-of-the-art survey. <i>Computers and Industrial Engineering</i> , 1999 , 37, 151-155	6.4	46
39	Scheduling grouped jobs on single machine with genetic algorithm. <i>Computers and Industrial Engineering</i> , 1999 , 36, 309-324	6.4	12
38	A tutorial survey of job-shop scheduling problems using genetic algorithms, part II: hybrid genetic search strategies. <i>Computers and Industrial Engineering</i> , 1999 , 36, 343-364	6.4	212
37	Genetic algorithm approach on multi-criteria minimum spanning tree problem. <i>European Journal of Operational Research</i> , 1999 , 114, 141-152	5.6	133

36	Parts loading scheduling in a flexible forging machine using an advanced genetic algorithm. <i>Journal of Intelligent Manufacturing</i> , 1999 , 10, 149-159	6.7	8
35	Formulation of Multi-Objective Fuzzy Scheduling Problems with Job Importance Grades. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1999 , 11, 512-520		
34	1999 ,		271
33	Hybridized Neural Network and Genetic Algorithms for Solving Nonlinear Integer Programming Problem. <i>Lecture Notes in Computer Science</i> , 1999 , 421-429	0.9	1
32	Optimal interval design for system reliability with incomplete FDS by means of improved genetic algorithms. <i>Electronics and Communications in Japan</i> , 1998 , 81, 84-94		1
31	An effective genetic algorithm approach to the quadratic minimum spanning tree problem. <i>Computers and Operations Research</i> , 1998 , 25, 229-237	4.6	43
30	System Reliability Optimization with Fuzzy Goals Using Genetic Algorithm. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1998 , 10, 356-365		4
29	Spanning Tree-based Genetic Algorithm for Solving Bicriteria Transportation Problem. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1998 , 10, 888-898		3
28	Matrix-based Genetic Algorithm Approach on Bicriteria Minimum Spanning Tree Problem with Interval Coefficients. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1998 , 10, 1144-1153		3
27	Improvement of Two-phase Approach for Solving Fuzzy Multiple Objective Linear Programming. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1997 , 9, 115-121		5
26	Improved Genetic Algorithm for Solving Multiobjective Solid Transportation Problem with Fuzzy Numbers. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1997 , 9, 239-250		4
25	Resource Constrained Project Scheduling Problem using Genetic Algorithms. <i>Intelligent Automation and Soft Computing</i> , 1997 , 3, 273-286	2.6	13
24	A note on genetic algorithms for degree-constrained spanning tree problems. <i>Networks</i> , 1997 , 30, 91-95	1.6	59
23	Performance of Multiclass Computer Systems Using Fuzzy Queueing Model. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1996 , 8, 947-957		
22	Performance Evaluation of Network Models based on Fuzzy Queueing System. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1996 , 8, 508-518		1
21	Optimal design of system reliability by an improved genetic algorithm. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1996 , 79, 41-51		12
20	Genetic algorithm for non-linear mixed integer programming problems and its applications. <i>Computers and Industrial Engineering</i> , 1996 , 30, 905-917	6.4	155
19	A tutorial survey of job-shop scheduling problems using genetic algorithms[] representation. <i>Computers and Industrial Engineering</i> , 1996 , 30, 983-997	6.4	374

18	Optimal design of system reliability using interval programming and genetic algorithms. <i>Computers and Industrial Engineering</i> , 1996 , 31, 237-240	6.4	30
17	1996 ,		358
16	New Relations of Trapezoidal Fuzzy Numbers and Its Application to Fuzzy Linear Programming Problems. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1995 , 7, 1209-1220		
15	A Method for Solving Fuzzy Optimal Reliability Design Problem by Genetic Algorithm. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1995 , 7, 1062-1072		2
14	System Reliability Optimization Problems with Several Failure Modes by Genetic Algorithm. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1995 , 7, 177-185		8
13	Vehicle Routing Problem with Fuzzy Due-time Using Genetic Algorithms. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1995 , 7, 1050-1061		39
12	Solving Job-shop Scheduling Problem with Fuzzy Processing Time Using Genetic Algorithm. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1995 , 7, 1073-1083		28
11	A Method for Solving Fuzzy Multi-Dimensional 0-1 Knapsack Problems. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1994 , 6, 1171-1181		2
10	Order Relation between Intervals and Its Application to Shortest Path Problem. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1994 , 6, 1182-1192		4
9	A Method for Solving Multiple Objective Linear Programming Problems with Trapezoidal Fuzzy Coefficients. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1993 , 5, 55-64		1
8	Fuzzy Fault Tree Analysis and Its Applications. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1993 , 5, 1000-1013		1
7	A method for solving reliability optimization problem with incomplete FDS by Fuzzy multiobjective 0-1 linear programming. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1993 , 76, 32-43		1
6	A method for transforming multiple-objective linear programming problems with trapezoidal Fuzzy coefficients. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1993 , 76, 73-84		
5	A method for solving reliability optimization problem by fuzzy multiobjective 0-1 linear programming. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1991 , 74, 106-116		5
4	A computational algorithm for solving 0-1 goal programming with GUB structures and its application for optimization problems in system reliability. <i>Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi)</i> , 1990 , 73, 88-96		23
3	Neural network approach for general assignment problem		6
2	GA-based method for fuzzy optimal design of system reliability with incomplete FDS		1
1	Research on remanufacturing closed loop supply chain based on incentive-compatibility theory under uncertainty. <i>Annals of Operations Research</i> , 1	3.2	2

