

# Mitsuo Gen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11334708/publications.pdf>

Version: 2024-02-01

130  
papers

8,069  
citations

100601

38  
h-index

78623

77  
g-index

137  
all docs

137  
docs citations

137  
times ranked

4819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid multiobjective evolutionary algorithm considering combination timing for multi-type vehicle routing problem with time windows. Computers and Industrial Engineering, 2022, 171, 108435.	3.4	10
2	Advances in Hybrid Evolutionary Algorithms for Fuzzy Flexible Job-shop Scheduling: State-of-the-Art Survey. , 2021, , .		5
3	Fuzzy Programming of Dual Recycling Channels of Sustainable Multi-objective Waste Electrical and Electronic Equipment (WEEE) based on Triple Bottom Line (TBL) Theory. Arabian Journal for Science and Engineering, 2021, 46, 10231-10244.	1.7	2
4	Hybridizing Teaching-Learning Based Optimization with GA and PSO: Case Study of Supply Chain Network Model. , 2021, , .		1
5	Hybrid Meta-heuristics Approach for Solving Supply Chain Network Model under Disruption Risk. , 2021, , .		0
6	Hybrid multiobjective evolutionary algorithm with fast sampling strategy-based global search and route sequence difference-based local search for VRPTW. Expert Systems With Applications, 2020, 145, 113151.	4.4	29
7	Research on green closed-loop supply chain with the consideration of double subsidy in e-commerce environment. Computers and Industrial Engineering, 2020, 149, 106779.	3.4	46
8	Network optimization with big data and uncertain data. International Journal of General Systems, 2020, 49, 467-469.	1.2	1
9	Sustainable Closed-Loop Supply Chain Design Problem: A Hybrid Genetic Algorithm Approach. Mathematics, 2020, 8, 84.	1.1	25
10	Advances in Hybrid Genetic Algorithms with Learning and GPU for Scheduling Problems: Brief Survey and Case Study. Advances in Intelligent Systems and Computing, 2020, , 322-339.	0.5	0
11	Multiobjective Evolutionary Algorithm with Fast Convergence Strategy for Clustered Vehicle Routing Problem with Time Window. , 2019, , .		0
12	Multiobjective Evolutionary Algorithm based on Fast Elite Sampling Strategy and Difference-based Local Search for VRPTW. , 2019, , .		1
13	Multiobjective Particle Swarm Optimization with Improved Selection Strategy for Route Optimization. , 2019, , .		1
14	Accelerating genetic algorithms with GPU computing: A selective overview. Computers and Industrial Engineering, 2019, 128, 514-525.	3.4	57
15	Large scale flexible scheduling optimization by a distributed evolutionary algorithm. Computers and Industrial Engineering, 2019, 128, 894-904.	3.4	31
16	Advances in Hybrid EDA for Manufacturing Scheduling with Uncertainty: Part I. Lecture Notes on Multidisciplinary Industrial Engineering, 2019, , 939-954.	0.4	2
17	A bi-objective genetic algorithm for intelligent rehabilitation scheduling considering therapy precedence constraints. Journal of Intelligent Manufacturing, 2018, 29, 973-988.	4.4	21
18	Hybrid evolutionary optimisation with learning for production scheduling: state-of-the-art survey on algorithms and applications. International Journal of Production Research, 2018, 56, 193-223.	4.9	50

#	ARTICLE	IF	CITATIONS
19	Hybrid Multiobjective Differential Evolution Based on Positions of Individuals in Multiobjective Optimization. , 2018, , .		2
20	Recent advances in hybrid priority-based genetic algorithms for logistics and SCM network design. Computers and Industrial Engineering, 2018, 125, 394-412.	3.4	34
21	Multi-stage Logistics Inventory for Automobile Manufacturing by Random Key-Based GA. , 2018, , 768-790.		0
22	Embedding ant system in genetic algorithm for re-entrant hybrid flow shop scheduling problems with time window constraints. Journal of Intelligent Manufacturing, 2017, 28, 1915-1931.	4.4	42
23	Effective multiobjective EDA for bi-criteria stochastic job-shop scheduling problem. Journal of Intelligent Manufacturing, 2017, 28, 833-845.	4.4	37
24	Recent advances in hybrid evolutionary algorithms for multiobjective manufacturing scheduling. Computers and Industrial Engineering, 2017, 112, 616-633.	3.4	56
25	Adaptive Hybrid Genetic Algorithm with Modified Cuckoo Search for Reliability Optimization Problem. Advances in Intelligent Systems and Computing, 2017, , 353-365.	0.5	1
26	Advances in Hybrid Metaheuristics for Stochastic Manufacturing Scheduling: Part I Models and Methods. Advances in Intelligent Systems and Computing, 2017, , 1063-1077.	0.5	2
27	Logistics network optimization considering balanced allocation and vehicle routing. Maritime Economics and Logistics, 2016, 18, 41-60.	2.0	5
28	A Co-cooperative Evolutionary Algorithm for Flexible Scheduling Problem under Uncertainty. Procedia Computer Science, 2015, 61, 515-520.	1.2	1
29	Multiobjective Hybrid Genetic Algorithms for Manufacturing Scheduling: Part I Models and Algorithms. Advances in Intelligent Systems and Computing, 2015, , 3-25.	0.5	6
30	An Algorithm of Multi-Subpopulation Parameters With Hybrid Estimation of Distribution for Semiconductor Scheduling With Constrained Waiting Time. IEEE Transactions on Semiconductor Manufacturing, 2015, 28, 353-366.	1.4	33
31	A multi-objective hybrid genetic algorithm to minimize the total cost and delivery tardiness in a reverse logistics. Multimedia Tools and Applications, 2015, 74, 9067-9085.	2.6	35
32	Metaheuristics optimization approaches for two-stage reentrant flexible flow shop with blocking constraint. Expert Systems With Applications, 2015, 42, 2395-2410.	4.4	36
33	Re-entrant flow shop scheduling problem with time windows using hybrid genetic algorithm based on auto-tuning strategy. International Journal of Production Research, 2014, 52, 2612-2629.	4.9	43
34	Hybrid estimation of distribution algorithm with multiple subpopulations for semiconductor manufacturing scheduling problem with limited waiting-time constraint. , 2014, , .		2
35	Hybrid Multiobjective Evolutionary Algorithm for Assembly Line Balancing Problem with Stochastic Processing Time. Procedia Computer Science, 2014, 36, 587-592.	1.2	6
36	Multiobjective evolutionary algorithm for manufacturing scheduling problems: state-of-the-art survey. Journal of Intelligent Manufacturing, 2014, 25, 849-866.	4.4	157

#	ARTICLE	IF	CITATIONS
37	An effective Markov network based EDA for flexible job shop scheduling problems under uncertainty. , 2014, , .		4
38	An Effective Multi-objective EDA for Robust Resource Constrained Project Scheduling with Uncertain Durations. Procedia Computer Science, 2014, 36, 571-578.	1.2	15
39	A Multiobjective Hybrid Genetic Algorithm for TFT-LCD Module Assembly Scheduling. IEEE Transactions on Automation Science and Engineering, 2014, 11, 692-705.	3.4	55
40	Recent Advances in Multiobjective Genetic Algorithms for Manufacturing Scheduling Problems. Advances in Intelligent Systems and Computing, 2014, , 815-831.	0.5	0
41	Adaptive genetic algorithm for solving sugarcane loading stations with multi-facility services problem. Computers and Electronics in Agriculture, 2013, 98, 85-99.	3.7	34
42	Advances in Multiobjective Hybrid Genetic Algorithms for Intelligent Manufacturing and Logistics Systems. Lecture Notes in Computer Science, 2013, , 379-389.	1.0	0
43	Network modeling and evolutionary optimization for scheduling in manufacturing. Journal of Intelligent Manufacturing, 2012, 23, 2237-2253.	4.4	33
44	A novel bi-vector encoding genetic algorithm for the simultaneous multiple resources scheduling problem. Journal of Intelligent Manufacturing, 2012, 23, 2255-2270.	4.4	52
45	A Hybrid EA for Reactive Flexible Job-shop Scheduling. Procedia Computer Science, 2012, 12, 110-115.	1.2	14
46	Building a reusable reverse logistics model and its optimization considering the decision of backorder/next arrival of goods. Electronics and Communications in Japan, 2012, 95, 42-55.	0.3	2
47	A genetic algorithm based approach to vehicle routing problem with simultaneous pick-up and deliveries. Computers and Industrial Engineering, 2012, 62, 755-761.	3.4	190
48	Multiobjective Genetic Algorithm for Scheduling Problems in Manufacturing Systems. Industrial Engineering and Management Systems, 2012, 11, 310-330.	0.3	11
49	Multi-objective Job Shop Rescheduling with Evolutionary Algorithm. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 674-681.	0.1	2
50	Building of Reusable Reverse Logistics Model and its Optimization Considering the Decision of Backorder or Next Arrival of Goods. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1009-1019.	0.1	0
51	Optimal Design of Two-stage Logistics Network Considered Inventory by Boltzmann Random Key-based GA. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 195-202.	0.8	3
52	Hybrid genetic algorithm with adaptive local search for precedence-constrained sequencing problems. , 2010, , .		1
53	Introduction to Evolutionary Algorithms. Decision Engineering, 2010, , .	1.5	256
54	Multistage-Based Genetic Algorithm for Flexible Job-Shop Scheduling Problem. Studies in Computational Intelligence, 2009, , 183-196.	0.7	72

#	ARTICLE	IF	CITATIONS
55	Solution method for multi-product two-stage logistics network with constraints on delivery route. Electronics and Communications in Japan, 2009, 92, 18-24.	0.3	1
56	A steady-state genetic algorithm for multi-product supply chain network design. Computers and Industrial Engineering, 2009, 56, 521-537.	3.4	201
57	Network model and optimization of reverse logistics by hybrid genetic algorithm. Computers and Industrial Engineering, 2009, 56, 951-964.	3.4	151
58	Evolutionary techniques for optimization problems in integrated manufacturing system: State-of-the-art-survey. Computers and Industrial Engineering, 2009, 56, 779-808.	3.4	56
59	Integrated multistage logistics network design by using hybrid evolutionary algorithm. Computers and Industrial Engineering, 2009, 56, 854-873.	3.4	73
60	Hybrid Genetic Algorithm for Designing Logistics Network, VRP and AGV Problems. Studies in Computational Intelligence, 2009, , 123-139.	0.7	3
61	A hybrid genetic and variable neighborhood descent algorithm for flexible job shop scheduling problems. Computers and Operations Research, 2008, 35, 2892-2907.	2.4	417
62	Designing a multistage reverse logistics network problem by hybrid genetic algorithm. , 2008, , .		3
63	A Multi-Stage Reverse Logistics Network Problem by Using Hybrid Priority-Based Genetic Algorithm. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 450-455.	0.1	5
64	Applications of Evolutionary Technology to Information and Communication Systems: State-of-the Art Survey. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 340-345.	0.1	2
65	Solution Method of Multi-Product Two-Stage Logistics Problem with Constraints of Delivery Course. IEEJ Transactions on Electronics, Information and Systems, 2008, 128, 456-461.	0.1	3
66	Solving exclusionary side constrained logistics network by using priority-based GA. , 2007, , .		0
67	A bicriteria shortest path routing problems by hybrid genetic algorithm in communication networks. , 2007, , .		8
68	A hybrid of genetic algorithm and bottleneck shifting for multiobjective flexible job shop scheduling problems. Computers and Industrial Engineering, 2007, 53, 149-162.	3.4	175
69	Nonlinear fixed charge transportation problem by spanning tree-based genetic algorithm. Computers and Industrial Engineering, 2007, 53, 290-298.	3.4	95
70	Soft computing approach for reliability optimization: State-of-the-art survey. Reliability Engineering and System Safety, 2006, 91, 1008-1026.	5.1	178
71	A genetic algorithm for two-stage transportation problem using priority-based encoding. OR Spectrum, 2006, 28, 337-354.	2.1	215
72	A genetic algorithm approach for multi-objective optimization of supply chain networks. Computers and Industrial Engineering, 2006, 51, 196-215.	3.4	454

#	ARTICLE	IF	CITATIONS
73	Effective genetic approach for optimizing advanced planning and scheduling in flexible manufacturing system. , 2006, , .		29
74	Genetic Algorithms and Their Applications. , 2006, , 749-773.		12
75	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
76	Recent network design techniques using evolutionary algorithms. International Journal of Production Economics, 2005, 98, 251-261.	5.1	68
77	Hybrid genetic algorithm for multi-time period production/distribution planning. Computers and Industrial Engineering, 2005, 48, 799-809.	3.4	163
78	A genetic algorithm approach to the balanced allocation of customers to multiple warehouses with varying capacities. International Journal of Logistics Research and Applications, 2005, 8, 181-192.	5.6	12
79	1113 Transportation Problem with Nonlinear Side Constraints : Two Genetic Algorithm-based Approaches. The Proceedings of Conference of Hokuriku-Shinetsu Branch, 2005, 2005.42, 371-372.	0.0	0
80	Network-based hybrid genetic algorithm for scheduling in FMS environments. Artificial Life and Robotics, 2004, 8, 67-76.	0.7	18
81	Title is missing!. Journal of Intelligent Manufacturing, 2003, 14, 389-399.	4.4	46
82	Various hybrid methods based on genetic algorithm with fuzzy logic controller. Journal of Intelligent Manufacturing, 2003, 14, 401-419.	4.4	30
83	A genetic algorithm approach to the bi-criteria allocation of customers to warehouses. International Journal of Production Economics, 2003, 86, 35-45.	5.1	91
84	EVOLUTIONARY NETWORK DESIGN: HYBRID GENETIC ALGORITHMS APPROACH. International Journal of Computational Intelligence and Applications, 2003, 03, 357-380.	0.6	17
85	A Method of Fuzzy Multi-objective Nonlinear Programming with GUB Structure by Hybrid Genetic Algorithm. International Journal of Smart Engineering System Design, 2003, 5, 281-288.	0.2	18
86	The balanced allocation of customers to multiple distribution centers in the supply chain network: a genetic algorithm approach. Computers and Industrial Engineering, 2002, 43, 251-261.	3.4	176
87	Study on multi-stage logistic chain network: a spanning tree-based genetic algorithm approach. Computers and Industrial Engineering, 2002, 43, 299-314.	3.4	264
88	Network design techniques using adapted genetic algorithms. Advances in Engineering Software, 2001, 32, 731-744.	1.8	64
89	A Genetic Algorithm for Solving Bicriteria Network Topology Design Problems. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 43-54.	0.0	6
90	Bicriteria Knapsack Problem with GUB Structure by Hybrid Genetic Algorithm. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 531-538.	0.0	1

#	ARTICLE	IF	CITATIONS
91	Improved genetic algorithm for generalized transportation problem. <i>Artificial Life and Robotics</i> , 2000, 4, 96-102.	0.7	9
92	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.	0.0	21
93	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.	3.4	109
94	GA-based reliability design: State-of-the-art survey. <i>Computers and Industrial Engineering</i> , 1999, 37, 151-155.	3.4	52
95	Scheduling grouped jobs on single machine with genetic algorithm. <i>Computers and Industrial Engineering</i> , 1999, 36, 309-324.	3.4	16
96	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.	3.4	260
97	Genetic algorithm approach on multi-criteria minimum spanning tree problem. <i>European Journal of Operational Research</i> , 1999, 114, 141-152.	3.5	167
98	Parts loading scheduling in a flexible forging machine using an advanced genetic algorithm. <i>Journal of Intelligent Manufacturing</i> , 1999, 10, 149-159.	4.4	10
99	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.	0.0	0
100	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.	0.2	1
101	An effective genetic algorithm approach to the quadratic minimum spanning tree problem. <i>Computers and Operations Research</i> , 1998, 25, 229-237.	2.4	53
102	System Reliability Optimization with Fuzzy Goals Using Genetic Algorithm. <i>Journal of Japan Society for Fuzzy Theory and Systems</i> , 1998, 10, 356-365.	0.0	7
103	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.	0.0	4
104	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.	0.0	7
105	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.	0.0	6
106	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.	0.0	9
107	Resource Constrained Project Scheduling Problem using Genetic Algorithms. <i>Intelligent Automation and Soft Computing</i> , 1997, 3, 273-286.	1.6	15
108	A note on genetic algorithms for degree-constrained spanning tree problems. <i>Networks</i> , 1997, 30, 91-95.	1.6	73



#	ARTICLE	IF	CITATIONS
109	Performance of Multiclass Computer Systems Using Fuzzy Queueing Model. Journal of Japan Society for Fuzzy Theory and Systems, 1996, 8, 947-957.	0.0	0
110	Performance Evaluation of Network Models based on Fuzzy Queueing System. Journal of Japan Society for Fuzzy Theory and Systems, 1996, 8, 508-518.	0.0	2
111	Optimal design of system reliability by an improved genetic algorithm. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq1 1 0.7843.14 rgBT 16 Overloc	0.0	0
112	Genetic algorithm for non-linear mixed integer programming problems and its applications. Computers and Industrial Engineering, 1996, 30, 905-917.	3.4	188
113	A tutorial survey of job-shop scheduling problems using genetic algorithmsâ€”I. representation. Computers and Industrial Engineering, 1996, 30, 983-997.	3.4	484
114	Optimal design of system reliability using interval programming and genetic algorithms. Computers and Industrial Engineering, 1996, 31, 237-240.	3.4	36
115	A Method for Solving Fuzzy Optimal Reliability Design Problem by Genetic Algorithm. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 1062-1072.	0.0	8
116	System Reliability Optimization Problems with Several Failure Modes by Genetic Algorithm. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 177-185.	0.0	12
117	Vehicle Routing Problem with Fuzzy Due-time Using Genetic Algorithms. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 1050-1061.	0.0	62
118	Solving Job-shop Scheduling Problem with Fuzzy Processing Time Using Genetic Algorithm. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 1073-1083.	0.0	37
119	New Relations of Trapezoidal Fuzzy Numbers and Its Application to Fuzzy Linear Programming Problems. Journal of Japan Society for Fuzzy Theory and Systems, 1995, 7, 1209-1220.	0.0	0
120	A Method for Solving Fuzzy Multi-Dimensional 0-1 Knapsack Problems. Journal of Japan Society for Fuzzy Theory and Systems, 1994, 6, 1171-1181.	0.0	3
121	Order Relation between Intervals and Its Application to Shortest Path Problem. Journal of Japan Society for Fuzzy Theory and Systems, 1994, 6, 1182-1192.	0.0	5
122	A method for solving reliability optimization problem with incomplete FDS by Fuzzy multiobjective 0â€”1 linear programming. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1993, 76, 32-43.	0.1	2
123	A method for transforming multipleâ€”objective linear programming problems with trapezoidal Fuzzy coefficients. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1993, 76, 73-84.	0.1	0
124	A Method for Solving Multiple Objective Linear Programming Problems with Trapezoidal Fuzzy Coefficients. Journal of Japan Society for Fuzzy Theory and Systems, 1993, 5, 55-64.	0.0	2
125	Fuzzy Fault Tree Analysis and Its Applications. Journal of Japan Society for Fuzzy Theory and Systems, 1993, 5, 1000-1013.	0.0	7
126	A method for solving reliability optimization problem by fuzzy multiobjective 0â€”1 linear programming. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English) Tj ETQq0 0 0 rgBT /Overclock 10 T6 50 57 Td	0.0	0



#	ARTICLE	IF	CITATIONS
127	A computational algorithm for solving 0-1 goal programming with GUB structures and its application for optimization problems in system reliability. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi Tsushin Gakkai Ronbunshi), 1990, 73, 88-96.	0.1	29
128	Neural network approach for general assignment problem. , 0, , .		8
129	GA-based method for fuzzy optimal design of system reliability with incomplete FDS. , 0, , .		1
130	Research on remanufacturing closed loop supply chain based on incentive-compatibility theory under uncertainty. Annals of Operations Research, 0, , 1.	2.6	9