Masahiro Inuiguchi

List of Publications by Year
in descending order

90	2,008	361413 20	243625 44
papers	citations	h-index	g-index

92	92	92	915
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Data anonymization with imprecise rules and its performance evaluations. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 15023-15035.	4.9	1
2	New conditions for testing necessarily/possibly efficiency of non-degenerate basic solutions based on the tolerance approach. European Journal of Operational Research, 2020, 283, 341-355.	5.7	8
3	Utilization of Imprecise Rules for Privacy Protection. Lecture Notes in Computer Science, 2019, , 260-270.	1.3	3
4	Knowledge Acquisition with Deep Fuzzy Inference Model and Its Application to a Medical Diagnosis. , 2019, , .		1
5	Rule-Based Classifier Using Bernoulli Mixture Model for Utilizing Published Rules. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2018, 30, 501-508.	0.0	0
6	An Evidence Theoretic Approach to Interval Analytic Hierarchy Process. Lecture Notes in Computer Science, 2018, , 60-71.	1.3	0
7	Estimation Methods of Interval Weights Centered at Geometric Mean from a Pairwise Comparison Matrix. , 2018, , .		1
8	Increasing Convergence of the Quality of Estimated Interval Weight Vector in Interval AHP. , 2018, , .		1
9	A Fuzzily Partitioned Interval Function Model for Ordinal Regression. , 2018, , .		0
10	A Combined column generation and heuristics for railway short-term rolling stock planning with regular inspection constraints. Computers and Operations Research, 2017, 81, 14-25.	4.0	21
11	Global optimality test for maximin solution of bilevel linear programming with ambiguous lower-level objective function. Annals of Operations Research, 2017, 256, 285-304.	4.1	8
12	Bilevel linear programming with lower-level fuzzy objective function. , 2017, , .		1
13	Non-parametric interval weight estimation methods from a crisp pairwise comparison matrix. , 2017, , .		2
14	A mixture model approach to utilizing published decision rules. , 2017, , .		0
15	Improving Interval Weight Estimations in Interval AHP by Relaxations. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2017, 21, 1135-1143.	0.9	8
16	Improvement of Interval Weight Estimation in Interval AHP. , 2016, , .		3
17	Non-uniqueness of Interval Weight Vector to Consistent Interval Pairwise Comparison Matrix and Logarithmic Estimation Methods. Lecture Notes in Computer Science, 2016, , 39-50.	1.3	4
18	A fundamental study for partially defined cooperative games. Fuzzy Optimization and Decision Making, 2016, 15, 281-306.	5.5	9

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19	Bilevel linear programming with ambiguous objective function of the follower. Fuzzy Optimization and Decision Making, 2016, 15, 415-434.	5.5	6
20	Approximation-oriented Fuzzy Rough Set Approaches. Fundamenta Informaticae, 2015, 142, 21-51.	0.4	2
21	Imprecise Rules for Data Privacy. Lecture Notes in Computer Science, 2015, , 129-139.	1.3	5
22	Diminishing Utility Decision Model for Weighting Criteria. International Journal of Information Technology and Decision Making, 2015, 14, 1263-1284.	3.9	3
23	Pairwise comparison based interval analysis for group decision aiding with multiple criteria. Fuzzy Sets and Systems, 2015, 274, 79-96.	2.7	37
24	Fuzzy-Rough Hybridization. , 2015, , 425-451.		9
25	Structure-Based Attribute Reduction: A Rough Set Approach. Studies in Computational Intelligence, 2015, , 113-160.	0.9	2
26	Interval Analysis for Decision Aiding. Advances in Intelligent Systems and Computing, 2015, , 15-29.	0.6	0
27	Logarithmic Conversion Approach to the Estimation of Interval Priority Weights from a Pairwise Comparison Matrix. Lecture Notes in Computer Science, 2015, , 77-88.	1.3	1
28	On the utility of imprecise rules induced by MLEM2 in classification. , 2014, , .		5
29	Supplementary rules for MLEM2 decision rules and their usefulness in classification problems. , 2014, , .		0
30	The contributions of K. Asai and H. Tanaka in fuzzy optimization. , 2013, , .		1
31	Necessary efficiency is partitioned into possible and necessary optimalities. , 2013, , .		4
32	Deadlock Avoidance Scheduling for Dual-armed Cluster Tools by Petri Net Decomposition Approach. Transactions of the Society of Instrument and Control Engineers, 2013, 49, 479-487.	0.2	1
33	Attribute reduction for imprecise decision tables. , 2012, , .		0
34	A bilevel decomposition approach to railway crew rostering problems for fair labor condition. , 2012, , .		3
35	A Decomposition Approach to Railway Crew Rostering Problems for Fair Labor Condition. Transactions of the Institute of Systems Control and Information Engineers, 2012, 25, 272-280.	0.1	1
36	Qualitative and quantitative data envelopment analysis with interval data. Annals of Operations Research, 2012, 195, 189-220.	4.1	17

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37	Application of Column Generation for Train-set Scheduling Problems with Regular Maintenance Constraints. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 151-159.	0.2	0
38	Lazy classification using dominance-based rough membership values. , 2011, , .		0
39	Decision rule visualization for knowledge discovery by means of rough set approach. , 2011, , .		0
40	Column generation with dual inequalities for railway crew scheduling problems. Public Transport, 2011, 3, 25-42.	2.7	23
41	Column generation for sequence dependent flowshop scheduling to minimize the total weighted tardiness. , 2011, , .		0
42	Application of Column Generation for Railway Crew Scheduling Problems with Practical Constraints. IEEJ Transactions on Electronics, Information and Systems, 2011, 131, 1199-1208.	0.2	5
43	Dynamic Optimization of Simultaneous Dispatching and Conflict-free Routing for Automated Guided Vehicles - Petri Net Decomposition Approach -. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2010, 4, 701-715.	0.7	25
44	A unified approach to reducts in dominance-based rough set approach. Soft Computing, 2010, 14, 507-515.	3.6	29
45	A cut and column generation for flowshop scheduling problems to minimize the total weighted tardiness. , 2010, , .		0
46	Inducing rules considering inclusion relations between conclusions. , 2010, , .		0
47	Rule Induction from Information Tables with Ordinal Decision Attributes. , 2010, , .		0
48	Improvement of Column Generation Method for Railway Crew Scheduling Problems. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 275-283.	0.2	7
49	Decomposition of Petri nets and Lagrangian relaxation for solving routing problems for AGVs. International Journal of Production Research, 2009, 47, 3957-3977.	7.5	24
50	An integrated column generation and lagrangian relaxation for flowshop scheduling problems. , 2009, , .		2
51	A decomposition method for optimal firing sequence problems for first-order hybrid Petri nets. , 2009, , .		2
52	Petri Net Decomposition Method for Simultaneous Optimization of Task Assignment and Routing for AGVs. Transactions of the Institute of Systems Control and Information Engineers, 2009, 22, 191-198.	0.1	1
53	Decomposition and Coordination Method for Flowshop Scheduling Problems Represented by Timed Automata. Transactions of the Society of Instrument and Control Engineers, 2009, 45, 369-378.	0.2	0
54	Petri Net decomposition approach for the simultaneous optimization of task assignment and routing with automated guided vehicles. , 2008, , .		0

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55	Decomposition of timed automata for solving scheduling problems. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	2
56	Visualization with Voronoi tessellation and moving output units in Self-Organizing map of the real-number system. , 2008, , .		2
57	Several Reducts in Dominance-Based Rough Set Approach. , 2008, , 163-175.		9
58	Rule Induction through Clustering Classes for Nominal and Numerical Data. , 2007, , .		0
59	A study on the decomposition of transition firing sequence problems for Petri Nets. , 2007, , .		0
60	A Successive Lagrangian Relaxation Method for Solving Flowshop Scheduling Problems with Total Weighted Tardiness. , 2007, , .		5
61	Necessity measure optimization in linear programming problems with fuzzy polytopes. Fuzzy Sets and Systems, 2007, 158, 1882-1891.	2.7	25
62	Fuzzy rough sets and multiple-premise gradual decision rules. International Journal of Approximate Reasoning, 2006, 41, 179-211.	3.3	139
63	ATTRIBUTE REDUCTION IN VARIABLE PRECISION ROUGH SET MODEL. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2006, 14, 461-479.	1.9	40
64	Modus ponens versus modus tollens associated with rough gradual decision rules induced from a decision table. International Journal of Hybrid Intelligent Systems, 2005, 2, 109-131.	1.2	0
65	Fuzzy Linear Programming with Interactive Uncertain Parameters. Reliable Computing, 2004, 10, 357-367.	0.8	11
66	Enumeration of All Possibly Optimal Vertices with Possible Optimality Degrees in Linear Programming Problems with a Possibilistic Objective Function. Fuzzy Optimization and Decision Making, 2004, 3, 311-326.	5.5	15
67	Oblique fuzzy vectors and their use in possibilistic linear programming. Fuzzy Sets and Systems, 2003, 135, 123-150.	2.7	23
68	Possibilistic Linear Programming with Fuzzy If-Then Rule Coefficients. Fuzzy Optimization and Decision Making, 2002, 1, 65-91.	5.5	26
69	Generalizations of Rough Sets : Rough sets under similarity, fuzzy and dominance relations. Journal of Japan Society for Fuzzy Theory and Systems, 2001, 13, 562-570.	0.0	1
70	Enumeration of Possibly Optimal Extreme Points in Linear Programming Problems with Single Objective Function Coefficient Vectors in Convex Polytopes. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 169-175.	0.0	1
71	Possibilistic Programming for Variaus Decision Making : Part 1:Introduction to Possiblilistic Programming. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 10-18.	0.0	2
72	The Core and the Related Solution Concepts in Cooperative Fuzzy Games. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 193-202.	0.0	3

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73	Possibilistic Programming for Various Decision Making : Part4:Optimization Approaches. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 507-514.	0.0	0
74	Possibilistic linear programming: a brief review of fuzzy mathematical programming and a comparison with stochastic programming in portfolio selection problem. Fuzzy Sets and Systems, 2000, 111, 3-28.	2.7	648
75	Portfolio selection under independent possibilistic information. Fuzzy Sets and Systems, 2000, 115, 83-92.	2.7	158
76	An Inner Approximation Method for Optimization over the Weakly Efficient Set. Journal of Global Optimization, 2000, 16, 197-217.	1.8	9
77	Possiblistic Programming for Various Decision Making : Part3:Stochastic and Possibilistic Programming. Journal of Japan Society for Fuzzy Theory and Systems, 2000, 12, 377-381.	0.0	0
78	Data Envelopment Analysis with Fuzzy Input-Output Data. Lecture Notes in Economics and Mathematical Systems, 2000, , 296-307.	0.3	11
79	Inner approximation algorithms for optimization over the weakly efficient set. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 5915-5920.	0.4	0
80	Possibilistic DEA with Fuzzy Input-Output Data. Journal of Japan Society for Fuzzy Theory and Systems, 1999, 11, 472-481.	0.0	0
81	Robust optimization under softness in a fuzzy linear programming problem. International Journal of Approximate Reasoning, 1998, 18, 21-34.	3.3	81
82	Application of Genetic Annealing to a Fuzzy Manpower Allocation Problem. Journal of Japan Society for Fuzzy Theory and Systems, 1998, 10, 98-107.	0.0	0
83	Possible and necessary efficiency in possibilistic multiobjective linear programming problems and possible efficiency test. Fuzzy Sets and Systems, 1996, 78, 231-241.	2.7	72
84	A possibilistic linear program is equivalent to a stochastic linear program in a special case. Fuzzy Sets and Systems, 1995, 76, 309-317.	2.7	53
85	Minimax regret solution to linear programming problems with an interval objective function. European Journal of Operational Research, 1995, 86, 526-536.	5.7	176
86	Possible and necessary optimality tests in possibilistic linear programming problems. Fuzzy Sets and Systems, 1994, 67, 29-46.	2.7	70
87	Modality constrained programming problems: A unified approach to fuzzy mathematical programming problems in the setting of possibility theory. Information Sciences, 1993, 67, 93-126.	6.9	70
88	Some properties of extended fuzzy preference relations using modalities. Information Sciences, 1992, 61, 187-209.	6.9	22
89	Relative modalities and their use in possibilistic linear programming. Fuzzy Sets and Systems, 1990, 35, 303-323.	2.7	44
90	Robust optimality analysis of non-degenerate basic feasible solutions in linear programming problems with fuzzy objective coefficients. Fuzzy Optimization and Decision Making, 0, , 1.	5.5	1