

Tatsushi Nishi

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

1,250
citations

361413

20
h-index

434195

31
g-index

112
all docs

112
docs citations

112
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	A bilevel decomposition algorithm for simultaneous production scheduling and conflict-free routing for automated guided vehicles. <i>Computers and Operations Research</i> , 2011, 38, 876-888.	4.0	93
2	Petri Net Decomposition Approach for Dispatching and Conflict-Free Routing of Bidirectional Automated Guided Vehicle Systems. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , 2012, 42, 1230-1243.	2.9	87
3	Lagrangian relaxation with cut generation for hybrid flowshop scheduling problems to minimize the total weighted tardiness. <i>Computers and Operations Research</i> , 2010, 37, 189-198.	4.0	53
4	Optimal quantity discount coordination for supply chain optimization with one manufacturer and multiple suppliers under demand uncertainty. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 76, 1173-1184.	3.0	53
5	An integrated strategy for a production planning and warehouse layout problem: Modeling and solution approaches. <i>Omega</i> , 2017, 68, 85-94.	5.9	44
6	Two-level decomposition-based matheuristic for airline crew rostering problems with fair working time. <i>European Journal of Operational Research</i> , 2018, 267, 428-438.	5.7	41
7	A distributed decision making system for integrated optimization of production scheduling and distribution for aluminum production line. <i>Computers and Chemical Engineering</i> , 2007, 31, 1205-1221.	3.8	39
8	Column generation heuristics for ship routing and scheduling problems in crude oil transportation with split deliveries. <i>Computers and Chemical Engineering</i> , 2014, 60, 329-338.	3.8	33
9	A game theoretic model for coordination of single manufacturer and multiple suppliers with quality variations under uncertain demands. <i>International Journal of Systems Science: Operations and Logistics</i> , 2016, 3, 79-91.	3.0	32
10	An Augmented Lagrangian Approach for Distributed Supply Chain Planning for Multiple Companies. <i>IEEE Transactions on Automation Science and Engineering</i> , 2008, 5, 259-274.	5.2	31
11	Strategy dynamics particle swarm optimizer. <i>Information Sciences</i> , 2022, 582, 665-703.	6.9	29
12	An autonomous decentralized supply chain planning system for multi-stage production processes. <i>Journal of Intelligent Manufacturing</i> , 2005, 16, 259-275.	7.3	28
13	Experimental studies on a local rescheduling procedure for dynamic routing of autonomous decentralized AGV systems. <i>Robotics and Computer-Integrated Manufacturing</i> , 2006, 22, 154-165.	9.9	28
14	A distributed routing method for AGVs under motion delay disturbance. <i>Robotics and Computer-Integrated Manufacturing</i> , 2007, 23, 517-532.	9.9	27
15	Optimization of Multi-period Bilevel Supply Chains under Demand Uncertainty. <i>Procedia CIRP</i> , 2016, 41, 508-513.	1.9	27
16	Energy-Efficient Robot Configuration and Motion Planning Using Genetic Algorithm and Particle Swarm Optimization. <i>Energies</i> , 2022, 15, 2074.	3.1	27
17	Dynamic Optimization of Simultaneous Dispatching and Conflict-free Routing for Automated Guided Vehicles - Petri Net Decomposition Approach -. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2010, 4, 701-715.	0.7	25
18	Two-level decomposition algorithm for crew rostering problems with fair working condition. <i>European Journal of Operational Research</i> , 2014, 237, 465-473.	5.7	25

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19	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
20	Integrated production planning and warehouse storage assignment problem: An IoT assisted case. International Journal of Production Economics, 2021, 234, 108058.	8.9	24
21	Column generation with dual inequalities for railway crew scheduling problems. Public Transport, 2011, 3, 25-42.	2.7	23
22	Virtualization of a supply chain from the manufacturing enterprise view using e-catalogues. Procedia CIRP, 2019, 81, 932-937.	1.9	22
23	Lagrangian relaxation and cut generation for sequence-dependent setup time flowshop scheduling problems to minimise the total weighted tardiness. International Journal of Production Research, 2013, 51, 4778-4796.	7.5	21
24	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
25	A dynamic programming-based matheuristic for the dynamic berth allocation problem. Annals of Operations Research, 2020, 286, 391-410.	4.1	20
26	Simultaneous Optimization of Storage Allocation and Routing Problems for Belt-conveyor Transportation. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2007, 1, 250-261.	0.7	18
27	A solution procedure for mixed-integer nonlinear programming formulation of supply chain planning with quantity discounts under demand uncertainty. International Journal of Systems Science, 2014, 45, 2354-2365.	5.5	18
28	Government Regulations on Closed-Loop Supply Chain with Evolutionarily Stable Strategy. Sustainability, 2019, 11, 5030.	3.2	18
29	Cell-Based Local Search Heuristics for Guide Path Design of Automated Guided Vehicle Systems With Dynamic Multicommodity Flow. IEEE Transactions on Automation Science and Engineering, 2020, 17, 966-980.	5.2	18
30	A GRASP approach for solving the Blocks Relocation Problem with Stowage Plan. Flexible Services and Manufacturing Journal, 2019, 31, 702-729.	3.4	17
31	Autonomous decentralized scheduling system for just-in-time production. Computers and Chemical Engineering, 2000, 24, 345-351.	3.8	16
32	Hybrid Set Covering and Dynamic Modular Covering Location Problem: Application to an Emergency Humanitarian Logistics Problem. Applied Sciences (Switzerland), 2020, 10, 7110.	2.5	16
33	Automatic Construction of Virtual Supply Chain as Multi-Agent System Using Enterprise E-Catalogues. International Journal of Automation Technology, 2020, 14, 713-722.	1.0	13
34	Multi-Period Maximal Covering Location Problem with Capacitated Facilities and Modules for Natural Disaster Relief Services. Applied Sciences (Switzerland), 2021, 11, 397.	2.5	12
35	A Game Theoretic Model to Manufacturing Planning with Single Manufacturer and Multiple Suppliers with Asymmetric Quality Information. Procedia CIRP, 2013, 7, 115-120.	1.9	11
36	Petri Net Modeling and Decomposition Method for Solving Production Scheduling Problems. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2007, 1, 262-271.	0.7	10

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37	Multipopulation Ensemble Particle Swarm Optimizer for Engineering Design Problems. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-30.	1.1	10
38	An Autonomous Distributed Route Planning Method for Multiple Mobile Robots. <i>Transactions of the Society of Instrument and Control Engineers</i> , 2003, 39, 759-766.	0.2	10
39	A Supply Chain Planning Model with Supplier Selection under Uncertain Demands and Asymmetric Information. <i>Procedia CIRP</i> , 2014, 17, 639-644.	1.9	9
40	Construction of a virtual supply chain using enterprise e-catalogues. <i>Procedia CIRP</i> , 2020, 93, 688-693.	1.9	9
41	An N-Enterprise investment game under risk of domino accidents in a chemical cluster: Nash and pareto equilibria. <i>Computers and Chemical Engineering</i> , 2020, 134, 106705.	3.8	7
42	Analyzing just-in-time purchasing strategy in supply chains using an evolutionary game approach. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2020, 14, JAMDSM0070-JAMDSM0070.	0.7	7
43	Improvement of Column Generation Method for Railway Crew Scheduling Problems. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2010, 130, 275-283.	0.2	7
44	Noncyclic scheduling of dual-armed cluster tools for minimization of wafer residency time and makespan. <i>Advances in Mechanical Engineering</i> , 2017, 9, 168781401769321.	1.6	6
45	A Simultaneous Optimization Framework for Product Family Configuration and Supply Chain Planning. <i>Procedia CIRP</i> , 2019, 81, 1266-1271.	1.9	6
46	Dynamic p - q maximal hub location problem for freight transportation planning with rational markets. <i>Advances in Mechanical Engineering</i> , 2019, 11, 168781401882293.	1.6	6
47	Use of virtual supply chain constructed by cyber-physical systems concept. <i>Procedia CIRP</i> , 2021, 104, 351-356.	1.9	6
48	An Agent-based Transportation Route Planning Method for Led Fabricating Line and Its Evaluation Using Lagrangian Relaxation.. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2003, 46, 18-23.	0.3	5
49	A Successive Lagrangian Relaxation Method for Solving Flowshop Scheduling Problems with Total Weighted Tardiness. , 2007, , .		5
50	Energy Efficient Motion Planning of Dual-Armed Robots with Pickup Point Determination for Transportation Tasks. , 2018, , .		5
51	Machine Learning Approach for Identification of Objective Function in Production Scheduling Problems. , 2019, , .		5
52	Human Model for Gain Tuning of Looper Control in Hot Strip Rolling. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2004, 90, 933-940.	0.4	5
53	Application of Column Generation for Railway Crew Scheduling Problems with Practical Constraints. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2011, 131, 1199-1208.	0.2	5
54	A decentralized scheduling method for flowshop problems with resource constraints. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2004, 149, 44-51.	0.4	4

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55	Application of a neural network to the generation of a robot arm trajectory. <i>Artificial Life and Robotics</i> , 2005, 9, 107-111.	1.2	4
56	A Heuristic Approach for International Crude Oil Transportation Scheduling Problems. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012, 6, 687-702.	0.7	4
57	Decomposition of timed automata for solving scheduling problems. <i>International Journal of Systems Science</i> , 2014, 45, 472-486.	5.5	4
58	A practical model of routing problems for automated guided vehicles with acceleration and deceleration. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2014, 8, JAMDSM0067-JAMDSM0067.	0.7	4
59	Optimization of Multi-Period Bilevel Supply Chain Planning for Single Supplier and Single Retailer under Demand Uncertainty. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2017, 30, 73-80.	0.1	4
60	Application of Sequential Quadratic Programming Method to Temperature Distribution Control in Reactor Furnace. <i>ISIJ International</i> , 2005, 45, 347-355.	1.4	4
61	A Genetic Algorithm for Multi-Period Location Problem with Modular Emergency Facilities and Backup Services. <i>Transactions of the Institute of Systems Control and Information Engineers</i> , 2019, 32, 370-377.	0.1	4
62	Use cases of the platform for structuring a smart supply chain in discrete manufacturing. <i>Procedia CIRP</i> , 2022, 107, 687-692.	1.9	4
63	Petri Net decomposition for deadlock avoidance routing for bi-directional AGV systems. , 2010, , .		3
64	Petri Net Decomposition Approach for Bi-Objective Routing for AGV Systems Minimizing Total Traveling Time and Equalizing Delivery Time. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2012, 6, 672-686.	0.7	3
65	A bilevel decomposition approach to railway crew rostering problems for fair labor condition. , 2012, , .		3
66	Two-level decomposition algorithm for shift scheduling problems. , 2014, , .		3
67	Column generation heuristics to airline crew scheduling problem for fair working time. , 2016, , .		3
68	A heuristic approach for dividing graphs into bi-connected components with a size constraint. <i>Journal of Heuristics</i> , 2017, 23, 111-136.	1.4	3
69	Effects of Reconfigurations for Multi-period Production Planning under Demand Uncertainty. <i>Procedia CIRP</i> , 2017, 63, 260-264.	1.9	3
70	Analysis of leadership structures for two-echelon supply chains involving multiple risky suppliers. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2018, 12, JAMDSM0070-JAMDSM0070.	0.7	3
71	Design of optimal quantity discounts for multi-period bilevel production planning under uncertain demands. <i>Advances in Mechanical Engineering</i> , 2020, 12, 168781402090232.	1.6	3
72	An Augmented Lagrangian Approach for Scheduling Problems (Application to Total Weighted) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 <i>Manufacturing</i> , 2005, 48, 299-304.	0.3	2

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73	Decomposition of timed automata for solving scheduling problems. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	2
74	An integrated column generation and lagrangian relaxation for flowshop scheduling problems. , 2009, , .		2
75	A decomposition method for optimal firing sequence problems for first-order hybrid Petri nets. , 2009, , .		2
76	Petri net decomposition approach to deadlock-free scheduling for dual-armed cluster tools. , 2012, , .		2
77	A new deadlock prevention policy for multi-cluster tools with dual path. , 2014, , .		2
78	Application of two-phase decomposition algorithm to practical airline crew rostering problem for fair working time. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2016, 10, JAMDSM0036-JAMDSM0036.	0.7	2
79	Dynamic Reconfiguration of Leadership in Multi-Period Supply Chain Planning. Procedia CIRP, 2018, 72, 515-519.	1.9	2
80	A Distributed Collision-free Routing Method for Multiple AGVs under Motion Delay Disturbances. Transactions of the Society of Instrument and Control Engineers, 2006, 42, 1042-1050.	0.2	2
81	An improvement of a beam search method for warehouse storage allocation planning problems minimizing the number of operations and the aggregated number of products for each customer. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 1029-1035.	0.2	1
82	Petri Net Solver for Semiconductor Manufacturing Plan. , 2007, , .		1
83	Supply Chain Optimization with Quantity Discount Policy under Demand Uncertainty. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2011, 77, 4325-4338.	0.2	1
84	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
85	A Continuous Time Model of Multi-vehicle Routing Problems: A Column Generation Approach. , 2013, , .		1
86	Production planning problem with market impact under demand uncertainty. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2017, 11, JAMDSM0019-JAMDSM0019.	0.7	1
87	Modeling, scheduling, and control in advanced production systems. Advances in Mechanical Engineering, 2018, 10, 168781401877962.	1.6	1
88	An Evolutionary Game Model in Closed-Loop Supply Chain. , 2019, , .		1
89	Decomposition and Coordination of Timed Petri Nets for Solving Scheduling Problems. Transactions of the Society of Instrument and Control Engineers, 2007, 43, 338-345.	0.2	1
90	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

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91	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
92	Replacement of leader-follower relation in multi-period supply chain planning under demand uncertainty. , 2016, , .		1
93	Decomposition of timed Petri Nets for Solving Scheduling Problems with Multiple Entities. , 2007, , .		0
94	A study on the decomposition of transition firing sequence problems for Petri Nets. , 2007, , .		0
95	Petri Net decomposition approach for the simultaneous optimization of task assignment and routing with automated guided vehicles. , 2008, , .		0
96	A cut and column generation for flowshop scheduling problems to minimize the total weighted tardiness. , 2010, , .		0
97	Column generation approach to ship scheduling problems for international crude oil transportation. , 2011, , .		0
98	Petri net decomposition approach for bi-objective conflict-free routing for AGV systems. , 2011, , .		0
99	Column generation for sequence dependent flowshop scheduling to minimize the total weighted tardiness. , 2011, , .		0
100	Lagrangian Relaxation and Fix Heuristic for Integrated Production Planning and Warehouse Storage Allocation Problem under Demand Uncertainty. Transactions of the Institute of Systems Control and Information Engineers, 2015, 28, 91-98.	0.1	0
101	Non-cyclic scheduling of dual-armed cluster tools for bi-objective minimization of wafer residence time and makespan. , 2016, , .		0
102	A decomposition method with discrete abstraction for simultaneous traffic signal control and route selection problem with first-order hybrid Petri Nets. , 2017, , .		0
103	Multi-period Maximal Covering Location Problem with Modular Facilities for Locating Emergency Facilities with Back-up Services. , 2018, , .		0
104	Data-Based Identification Method for Jobshop Scheduling Problems Using Timed Petri Nets. , 2018, , .		0
105	Design of a Petri net supervisor for multi-cluster tools to improve scheduling performance. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0069-JAMDSM0069.	0.7	0
106	A Decentralized Scheduling Method for Flowshop Problems with Resource Constraints. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 1327-1333.	0.2	0
107	A Distributed Optimization System for Supply Chain Planning Among Multi-Companies Using an Augmented Lagrangian Decomposition Method. Transactions of the Society of Instrument and Control Engineers, 2004, 40, 582-589.	0.2	0
108	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

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109	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
110	S141013 Stackelberg Game Model for Manufacturing Planning in a Two-Echelon Supply Chain with Asymmetric Quality Information. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _S141013-1-_S141013-5.	0.0	0
111	311 A Supply Chain Planning Model with Supplier Selection under Uncertain Demands and Asymmetric Information. The Proceedings of Manufacturing Systems Division Conference, 2014, 2014, 83-84.	0.1	0
112	109 Petri Net Representation for 0-1 Integer Programming Problems and Extraction of Decomposable Structure. The Proceedings of Manufacturing Systems Division Conference, 2015, 2015, 59-60.	0.1	0