

# Tatsushi Nishi

## List of Publications by Year in descending order

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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	Strategy dynamics particle swarm optimizer. Information Sciences, 2022, 582, 665-703.	6.9	29
2	Energy-Efficient Robot Configuration and Motion Planning Using Genetic Algorithm and Particle Swarm Optimization. Energies, 2022, 15, 2074.	3.1	27
3	Use cases of the platform for structuring a smart supply chain in discrete manufacturing. Procedia CIRP, 2022, 107, 687-692.	1.9	4
4	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
5	Integrated production planning and warehouse storage assignment problem: An IoT assisted case. International Journal of Production Economics, 2021, 234, 108058.	8.9	24
6	Use of virtual supply chain constructed by cyber-physical systems concept. Procedia CIRP, 2021, 104, 351-356.	1.9	6
7	A dynamic programming-based matheuristic for the dynamic berth allocation problem. Annals of Operations Research, 2020, 286, 391-410.	4.1	20
8	An N-Enterprise investment game under risk of domino accidents in a chemical cluster: Nash and pareto equilibria. Computers and Chemical Engineering, 2020, 134, 106705.	3.8	7
9	Multipopulation Ensemble Particle Swarm Optimizer for Engineering Design Problems. Mathematical Problems in Engineering, 2020, 2020, 1-30.	1.1	10
10	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
11	Construction of a virtual supply chain using enterprise e-catalogues. Procedia CIRP, 2020, 93, 688-693.	1.9	9
12	Design of optimal quantity discounts for multi-period bilevel production planning under uncertain demands. Advances in Mechanical Engineering, 2020, 12, 168781402090232.	1.6	3
13	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
14	Analyzing just-in-time purchasing strategy in supply chains using an evolutionary game approach. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2020, 14, JAMDSM0070-JAMDSM0070.	0.7	7
15	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
16	A GRASP approach for solving the Blocks Relocation Problem with Stowage Plan. Flexible Services and Manufacturing Journal, 2019, 31, 702-729.	3.4	17
17	Virtualization of a supply chain from the manufacturing enterprise view using e-catalogues. Procedia CIRP, 2019, 81, 932-937.	1.9	22
18	A Simultaneous Optimization Framework for Product Family Configuration and Supply Chain Planning. Procedia CIRP, 2019, 81, 1266-1271.	1.9	6

#	ARTICLE	IF	CITATIONS
19	Government Regulations on Closed-Loop Supply Chain with Evolutionarily Stable Strategy. Sustainability, 2019, 11, 5030.	3.2	18
20	Machine Learning Approach for Identification of Objective Function in Production Scheduling Problems. , 2019, , .		5
21	Dynamic <i>p</i> - <i>q</i> maximal hub location problem for freight transportation planning with rational markets. Advances in Mechanical Engineering, 2019, 11, 168781401882293.	1.6	6
22	An Evolutionary Game Model in Closed-Loop Supply Chain. , 2019, , .		1
23	A Genetic Algorithm for Multi-Period Location Problem with Modular Emergency Facilities and Backup Services. Transactions of the Institute of Systems Control and Information Engineers, 2019, 32, 370-377.	0.1	4
24	Two-level decomposition-based matheuristic for airline crew rostering problems with fair working time. European Journal of Operational Research, 2018, 267, 428-438.	5.7	41
25	Multi-period Maximal Covering Location Problem with Modular Facilities for Locating Emergency Facilities with Back-up Services. , 2018, , .		0
26	Energy Efficient Motion Planning of Dual-Armed Robots with Pickup Point Determination for Transportation Tasks. , 2018, , .		5
27	Dynamic Reconfiguration of Leadership in Multi-Period Supply Chain Planning. Procedia CIRP, 2018, 72, 515-519.	1.9	2
28	Data-Based Identification Method for Jobshop Scheduling Problems Using Timed Petri Nets. , 2018, , .		0
29	Modeling, scheduling, and control in advanced production systems. Advances in Mechanical Engineering, 2018, 10, 168781401877962.	1.6	1
30	Analysis of leadership structures for two-echelon supply chains involving multiple risky suppliers. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0070-JAMDSM0070.	0.7	3
31	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
32	An integrated strategy for a production planning and warehouse layout problem: Modeling and solution approaches. Omega, 2017, 68, 85-94.	5.9	44
33	A heuristic approach for dividing graphs into bi-connected components with a size constraint. Journal of Heuristics, 2017, 23, 111-136.	1.4	3
34	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
35	Effects of Reconfigurations for Multi-period Production Planning under Demand Uncertainty. Procedia CIRP, 2017, 63, 260-264.	1.9	3
36	Noncyclic scheduling of dual-armed cluster tools for minimization of wafer residency time and makespan. Advances in Mechanical Engineering, 2017, 9, 168781401769321.	1.6	6

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37	Production planning problem with market impact under demand uncertainty. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2017, 11, JAMDSM0019-JAMDSM0019.	0.7	1
38	A decomposition method with discrete abstraction for simultaneous traffic signal control and route selection problem with first-order hybrid Petri Nets. , 2017, , .		0
39	Optimization of Multi-Period Bilevel Supply Chain Planning for Single Supplier and Single Retailer under Demand Uncertainty. Transactions of the Institute of Systems Control and Information Engineers, 2017, 30, 73-80.	0.1	4
40	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
41	Column generation heuristics to airline crew scheduling problem for fair working time. , 2016, , .		3
42	Non-cyclic scheduling of dual-armed cluster tools for bi-objective minimization of wafer residence time and makespan. , 2016, , .		0
43	Optimization of Multi-period Bilevel Supply Chains under Demand Uncertainty. Procedia CIRP, 2016, 41, 508-513.	1.9	27
44	A game theoretic model for coordination of single manufacturer and multiple suppliers with quality variations under uncertain demands. International Journal of Systems Science: Operations and Logistics, 2016, 3, 79-91.	3.0	32
45	Replacement of leader-follower relation in multi-period supply chain planning under demand uncertainty. , 2016, , .		1
46	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
47	Optimal quantity discount coordination for supply chain optimization with one manufacturer and multiple suppliers under demand uncertainty. International Journal of Advanced Manufacturing Technology, 2015, 76, 1173-1184.	3.0	53
48	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
49	Two-level decomposition algorithm for shift scheduling problems. , 2014, , .		3
50	A new deadlock prevention policy for multi-cluster tools with dual path. , 2014, , .		2
51	Decomposition of timed automata for solving scheduling problems. International Journal of Systems Science, 2014, 45, 472-486.	5.5	4
52	Column generation heuristics for ship routing and scheduling problems in crude oil transportation with split deliveries. Computers and Chemical Engineering, 2014, 60, 329-338.	3.8	33
53	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
54	A Supply Chain Planning Model with Supplier Selection under Uncertain Demands and Asymmetric Information. Procedia CIRP, 2014, 17, 639-644.	1.9	9

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55	Two-level decomposition algorithm for crew rostering problems with fair working condition. European Journal of Operational Research, 2014, 237, 465-473.	5.7	25
56	A practical model of routing problems for automated guided vehicles with acceleration and deceleration. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2014, 8, JAMDSM0067-JAMDSM0067.	0.7	4
57	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
58	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
59	A Continuous Time Model of Multi-vehicle Routing Problems: A Column Generation Approach. , 2013, , .		1
60	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
61	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
62	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
63	Petri Net Decomposition Approach for Bi-Objective Routing for AGV Systems Minimizing Total Traveling Time and Equalizing Delivery Time. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2012, 6, 672-686.	0.7	3
64	A Heuristic Approach for International Crude Oil Transportation Scheduling Problems. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2012, 6, 687-702.	0.7	4
65	Petri net decomposition approach to deadlock-free scheduling for dual-armed cluster tools. , 2012, , .		2
66	A bilevel decomposition approach to railway crew rostering problems for fair labor condition. , 2012, , .		3
67	Petri Net Decomposition Approach for Dispatching and Conflict-Free Routing of Bidirectional Automated Guided Vehicle Systems. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1230-1243.	2.9	87
68	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
69	Application of Column Generation for Train-set Scheduling Problems with Regular Maintenance Constraints. IEJ Transactions on Electronics, Information and Systems, 2012, 132, 151-159.	0.2	0
70	Column generation approach to ship scheduling problems for international crude oil transportation. , 2011, , .		0
71	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
72	Column generation with dual inequalities for railway crew scheduling problems. Public Transport, 2011, 3, 25-42.	2.7	23

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73	A bilevel decomposition algorithm for simultaneous production scheduling and conflict-free routing for automated guided vehicles. Computers and Operations Research, 2011, 38, 876-888.	4.0	93
74	Petri net decomposition approach for bi-objective conflict-free routing for AGV systems. , 2011, , .		0
75	Column generation for sequence dependent flowshop scheduling to minimize the total weighted tardiness. , 2011, , .		0
76	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
77	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
78	Lagrangian relaxation with cut generation for hybrid flowshop scheduling problems to minimize the total weighted tardiness. Computers and Operations Research, 2010, 37, 189-198.	4.0	53
79	Petri Net decomposition for deadlock avoidance routing for bi-directional AGV systems. , 2010, , .		3
80	A cut and column generation for flowshop scheduling problems to minimize the total weighted tardiness. , 2010, , .		0
81	Improvement of Column Generation Method for Railway Crew Scheduling Problems. IEEJ Transactions on Electronics, Information and Systems, 2010, 130, 275-283.	0.2	7
82	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
83	An integrated column generation and lagrangian relaxation for flowshop scheduling problems. , 2009, , .		2
84	A decomposition method for optimal firing sequence problems for first-order hybrid Petri nets. , 2009, , .		2
85	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
86	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
87	An Augmented Lagrangian Approach for Distributed Supply Chain Planning for Multiple Companies. IEEE Transactions on Automation Science and Engineering, 2008, 5, 259-274.	5.2	31
88	Petri Net decomposition approach for the simultaneous optimization of task assignment and routing with automated guided vehicles. , 2008, , .		0
89	Decomposition of timed automata for solving scheduling problems. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	2
90	Decomposition of timed Petri Nets for Solving Scheduling Problems with Multiple Entities. , 2007, , .		0

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91	Petri Net Solver for Semiconductor Manufacturing Plan. , 2007, , .		1
92	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
93	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
94	A study on the decomposition of transition firing sequence problems for Petri Nets. , 2007, , .		0
95	A Successive Lagrangian Relaxation Method for Solving Flowshop Scheduling Problems with Total Weighted Tardiness. , 2007, , .		5
96	A distributed decision making system for integrated optimization of production scheduling and distribution for aluminum production line. Computers and Chemical Engineering, 2007, 31, 1205-1221.	3.8	39
97	A distributed routing method for AGVs under motion delay disturbance. Robotics and Computer-Integrated Manufacturing, 2007, 23, 517-532.	9.9	27
98	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
99	Experimental studies on a local rescheduling procedure for dynamic routing of autonomous decentralized AGV systems. Robotics and Computer-Integrated Manufacturing, 2006, 22, 154-165.	9.9	28
100	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
101	An Augmented Lagrangian Approach for Scheduling Problems (Application to Total Weighted) Tj ETQq1 1 0.784314 rgBT /Overlock 107 Manufacturing, 2005, 48, 299-304.	0.3	2
102	Application of a neural network to the generation of a robot arm trajectory. Artificial Life and Robotics, 2005, 9, 107-111.	1.2	4
103	An autonomous decentralized supply chain planning system for multi-stage production processes. Journal of Intelligent Manufacturing, 2005, 16, 259-275.	7.3	28
104	Application of Sequential Quadratic Programming Method to Temperature Distribution Control in Reactor Furnace. ISIJ International, 2005, 45, 347-355.	1.4	4
105	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
106	A decentralized scheduling method for flowshop problems with resource constraints. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2004, 149, 44-51.	0.4	4
107	Human Model for Gain Tuning of Looper Control in Hot Strip Rolling. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2004, 90, 933-940.	0.4	5
108	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

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109	An Agent-based Transportation Route Planning Method for Led Fabricating Line and Its Evaluation Using Lagrangian Relaxation.. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 18-23.	0.3	5
110	An Autonomous Distributed Route Planning Method for Multiple Mobile Robots. Transactions of the Society of Instrument and Control Engineers, 2003, 39, 759-766.	0.2	10
111	A Decentralized Scheduling Method for Flowshop Problems with Resource Constraints. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 1327-1333.	0.2	0
112	Autonomous decentralized scheduling system for just-in-time production. Computers and Chemical Engineering, 2000, 24, 345-351.	3.8	16