

Maria Pia Fanti

List of Publications by Year in descending order

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Version: 2024-02-01

134
papers

2,176
citations

279778

23
h-index

276858

41
g-index

135
all docs

135
docs citations

135
times ranked

1509
citing authors

#	ARTICLE	IF	CITATIONS
1	Innovative Approaches for Electric Vehicles Relocation in Sharing Systems. IEEE Transactions on Automation Science and Engineering, 2022, 19, 21-36.	5.2	14
2	Critical Observability of Discrete-Event Systems in a Petri Net Framework. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2789-2799.	9.3	9
3	Smart District Energy Management With Cooperative Microgrids. IEEE Access, 2022, 10, 36311-36326.	4.2	8
4	Long Term Household Electricity Demand Forecasting Based on RNN-GBRT Model and a Novel Energy Theft Detection Method. Applied Sciences (Switzerland), 2021, 11, 8612.	2.5	7
5	Prediction of home energy consumption based on gradient boosting regression tree. Energy Reports, 2021, 7, 1246-1255.	5.1	78
6	Building Energy Management for Passive Cooling Based on Stochastic Occupants Behavior Evaluation. Energies, 2021, 14, 138.	3.1	12
7	Fleet Sizing for Electric Car Sharing Systems in Discrete Event System Frameworks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1161-1177.	9.3	12
8	Enabling Technologies for Smart Construction Engineering: a Review. , 2020, , .		3
9	Human Activity Discovery and Recognition Using Probabilistic Finite-State Automata. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2085-2096.	5.2	16
10	Hospital Drugs Distribution with Autonomous Robot Vehicles. , 2020, , .		7
11	Special Issue on Recent Advances in Petri Nets, Automata, and Discrete-Event Hybrid Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3484-3487.	9.3	3
12	An Innovative Service for Electric Vehicle Energy Demand Prediction. , 2020, , .		2
13	Drugs Cross-Distribution Management in Urban Areas through an Incentives Scheme. IFAC-PapersOnLine, 2020, 53, 17053-17058.	0.9	2
14	Optimal Trajectory Planning for a Robotic Manipulator Palletizing Tasks. , 2020, , .		3
15	Electric Vehicle Fleet Relocation Management for Sharing Systems based on Incentive Mechanism. , 2019, , .		7
16	Cooperative Distributed Energy Scheduling of Smart Homes Appliances in a Smart District. , 2019, , .		2
17	Critical Observability of Petri Nets with Unknown Initial Marking. , 2019, , .		1
18	A Serious Game Approach for the Electro-Mobility Sector*. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
19	A Decision Support System for Comfort optimization in a Smart Retirement Home. , 2019, , .		1
20	A Distributed Cluster-Based Approach for Pick-Up Services. IEEE Transactions on Automation Science and Engineering, 2019, 16, 960-971.	5.2	5
21	A simulation and control model for building energy management. Control Engineering Practice, 2018, 72, 192-205.	5.5	41
22	Internet of things and virtual sensors for electromobility. Internet Technology Letters, 2018, 1, e39.	1.9	14
23	An Integrated Framework for Binary Sensor Placement and Inhabitants Location Tracking. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 154-160.	9.3	24
24	A Decision Support System for User-Based Vehicle Relocation in Car Sharing Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1283-1296.	9.3	38
25	A decentralized control strategy for the coordination of AGV systems. Control Engineering Practice, 2018, 70, 86-97.	5.5	54
26	Decentralized Diagnosis by Petri Nets and Integer Linear Programming. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1689-1700.	9.3	72
27	Software Requirements and Use Cases for Electric Light Vehicles Management. , 2018, , .		6
28	A Connectivity Platform for Intermodal Transportation and Logistics Systems. , 2018, , .		1
29	Modeling Virtual Sensors for Electric Vehicles Charge Services. , 2018, , .		16
30	Critical Observability of Safe Petri Nets via Integer Linear Programming. , 2018, , .		3
31	A New Cluster-Based Approach for the Vehicle Routing Problem with Time Windows. , 2018, , .		3
32	A First Order Hybrid Petri Net Model for Building Energy Management. , 2018, , .		1
33	Virtual Sensors for Electromobility. , 2018, , .		6
34	On-line verification of current-state opacity by Petri nets and integer linear programming. Automatica, 2018, 94, 205-213.	5.0	60
35	A Decision Support System for Cooperative Logistics. IEEE Transactions on Automation Science and Engineering, 2017, 14, 732-744.	5.2	22
36	Decentralized Fault Diagnosis by Petri Nets and Integer Linear Programming. IFAC-PapersOnLine, 2017, 50, 13624-13629.	0.9	4

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37	Optimal energy management integrating renewable energy, energy storage systems and electric vehicles. , 2017, , .		14
38	Smart placement of motion sensors in a home environment. , 2017, , .		8
39	A flexible platform for intermodal transportation and integrated logistics. , 2017, , .		3
40	Natural Ventilation for Passive Cooling by Means of Optimized Control Logics. Procedia Engineering, 2017, 180, 841-850.	1.2	17
41	Optimal fuel consumption for heavy trucks: A review. , 2017, , .		10
42	Actors interactions and needs in the European electromobility network. , 2017, , .		14
43	Externalities reduction strategies in last mile logistics: A review. , 2017, , .		21
44	A natural ventilation control in buildings based on co-simulation architecture and Particle Swarm Optimization. , 2016, , .		4
45	Guest Editorial Special Section on Emerging Advances in Logistics Systems: Integrating Remote Sensing, IT, and Autonomy. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1420-1421.	5.2	3
46	Discrete consensus for asynchronous distributed task assignment. , 2016, , .		4
47	Decision support for a waste collection service with time and shift constraints. , 2016, , .		2
48	An Event-Based Approach for Discovering Activities of Daily Living by Hidden Markov Models. , 2016, , .		10
49	A review of new approaches for Dynamic Vehicle Routing Problem. , 2016, , .		10
50	Motion detector placement optimization in smart homes for inhabitant location tracking. , 2016, , .		3
51	A software tool for the decentralized control of AGV systems. , 2016, , .		1
52	A Decision Support Approach for Postal Delivery and Waste Collection Services. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1458-1470.	5.2	19
53	Scheduling Internal Operations in Post-Distribution Cross Docking Systems. IEEE Transactions on Automation Science and Engineering, 2016, 13, 296-312.	5.2	11
54	Evaluation framework in Cooperative Intelligent Transport Systems (C-ITS) for freight transport: the case of the CO-GISTICS speed advice service. International Journal of Advanced Logistics, 2016, 5, 30-43.	0.2	4

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55	An Integrated System for Production Scheduling in Steelmaking and Casting Plants. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1112-1128.	5.2	21
56	A Petri Net model for fleet sizing of Electric Car Sharing Systems. , 2016, , .		5
57	Simulation Study on the Convergence Time of a Discrete Consensus Algorithm for Distributed Task Assignment. , 2015, , .		1
58	A Decision Support System for the Management of an Electric-Car Sharing System. , 2015, , .		1
59	A new class of consensus protocols for agent networks with discrete time dynamics. Automatica, 2015, 54, 1-7.	5.0	14
60	Fault Detection and Recovery by Hybrid Petri Nets for Automated Drug Preparation Systems. IFAC-PapersOnLine, 2015, 48, 104-109.	0.9	1
61	A District Energy Management Based on Thermal Comfort Satisfaction and Real-Time Power Balancing. IEEE Transactions on Automation Science and Engineering, 2015, 12, 1271-1284.	5.2	47
62	Decentralized deadlock-free control for AGV systems. , 2015, , .		20
63	A simulation based Decision Support System for logistics management. Journal of Computational Science, 2015, 10, 86-96.	2.9	44
64	A Risk Assessment Framework for Hazmat Transportation in Highways by Colored Petri Nets. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 485-495.	9.3	21
65	An integrated technique for the internal logistics analysis and management in discrete manufacturing systems. International Journal of Computer Integrated Manufacturing, 2014, 27, 165-180.	4.6	10
66	Guest Editorial: Special Section on Advances in Discrete-Event Systems for Automation. IEEE Transactions on Automation Science and Engineering, 2014, 11, 3-5.	5.2	5
67	A framework for the distributed management of charging operations. , 2014, , .		3
68	Discrete event systems models and methods for different problems in healthcare management. , 2014, , .		4
69	A Petri net model of an integrated system for the Health Care At Home management. , 2014, , .		7
70	Freeway Traffic Modeling and Control in a First-Order Hybrid Petri Net Framework. IEEE Transactions on Automation Science and Engineering, 2014, 11, 90-102.	5.2	19
71	Fleet sizing for electric car sharing system via closed queueing networks. , 2014, , .		16
72	Modeling Steelmaking and Continuous Casting plants by Timed Petri Nets. , 2013, , .		2

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73	A simulation based analysis of production scheduling in a steelmaking and continuous casting plant. , 2013, , .		3
74	Fault Detection by Labeled Petri Nets in Centralized and Distributed Approaches. IEEE Transactions on Automation Science and Engineering, 2013, 10, 392-404.	5.2	46
75	A hierarchical optimization technique for the strategic design of distribution networks. Computers and Industrial Engineering, 2013, 66, 849-864.	6.3	15
76	A Mixed Integer Linear Programming model of a Steelmaking and Casting plant. , 2013, , .		1
77	Production scheduling in a Steelmaking and Continuous Casting plant: A case study. , 2013, , .		3
78	A Quantized Consensus Algorithm for a Multi-agent Assignment Problem. , 2013, , .		3
79	A Three-Level Strategy for the Design and Performance Evaluation of Hospital Departments. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 742-756.	9.3	49
80	Discrete consensus in networks with constrained capacity. , 2013, , .		15
81	A Simulation Model for Product Lifecycle Management. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1459-1464.	0.4	2
82	A Discrete Time Consensus Approach for Fault Detection and Recovery in Unreliable Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 85-90.	0.4	0
83	The Vehicle Relocation Problem in Car Sharing Systems: Modeling and Simulation in a Petri Net Framework. Lecture Notes in Computer Science, 2013, , 250-269.	1.3	27
84	Guest Editorial on Health-Care Management and Optimization. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2012, 42, 1310-1313.	2.9	6
85	A quantized consensus algorithm for distributed task assignment. , 2012, , .		14
86	Decision Support Systems based on a UML description approach. , 2012, , .		3
87	A Distributed Consensus Algorithm for Task Allocation in Supply Chain Management. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 566-571.	0.4	2
88	A PLM Approach for Services in Transportation System Management. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1053-1058.	0.4	1
89	A lean manufacturing strategy using Value Stream Mapping, the Unified Modeling Language, and discrete event simulation. , 2012, , .		9
90	Distributed fault detection by labeled Petri Nets. , 2012, , .		0

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91	Modeling and Optimization of Aircraft Trajectories: A review. , 2012, , .		2
92	A model for supply management of agile manufacturing supply chains. International Journal of Production Economics, 2012, 135, 451-457.	8.9	105
93	Modelling alarm management workflow in healthcare according to IHE framework by coloured Petri Nets. Engineering Applications of Artificial Intelligence, 2012, 25, 728-733.	8.1	10
94	Special section: Dependable system modelling and analysis. Engineering Applications of Artificial Intelligence, 2012, 25, 669-670.	8.1	0
95	A freeway traffic control model by first order hybrid Petri nets. , 2011, , .		9
96	A Metamodeling Approach to the Management of Intermodal Transportation Networks. IEEE Transactions on Automation Science and Engineering, 2011, 8, 457-469.	5.2	50
97	Welcome message from the general chair. , 2011, , .		0
98	Supplier selection in the public procurement sector via a data envelopment analysis approach. , 2011, , .		3
99	A fuzzy programming approach for the strategic design of distribution networks. , 2011, , .		12
100	A lean manufacturing procedure using Value Stream Mapping and the Analytic Hierarchy Process. , 2011, , .		5
101	Fault detection by labeled Petri nets and time constraints. , 2011, , .		6
102	Solving Scheduling Problems in Distribution Centers by Mixed Integer Linear Programming Formulations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8205-8210.	0.4	3
103	Identification of the unobservable behaviour of industrial automation systems by Petri nets. Control Engineering Practice, 2011, 19, 958-966.	5.5	50
104	A Colored Petri Net Model of motorways for risk evaluation of HAZMAT transportation. , 2011, , .		2
105	New consensus algorithms based on a positive splitting approach. , 2011, , .		3
106	Solving scheduling problems in distribution centers using symmetry breaking constraints. , 2011, , .		0
107	ICT Application on the Management of Intelligent Transportation Systems. Lecture Notes in Electrical Engineering, 2011, , 3-13.	0.4	0
108	A model for the optimal design of the Hospital Drug Distribution Chain. , 2010, , .		6

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109	A metamodeling technique for managing Intermodal Transportation Networks. , 2010, , .		3
110	A model for the strategic design of Distribution Networks. , 2010, , .		4
111	Scheduling the internal operations in distribution centers with buffer constraints. , 2010, , .		4
112	Performance analysis and management of an Automated Distribution Center. , 2009, , .		1
113	On-line fault detection in discrete event systems by Petri nets and integer linear programming. Automatica, 2009, 45, 2665-2672.	5.0	138
114	A decision support system framework for purchasing management in supply chains. Journal of Business and Industrial Marketing, 2009, 24, 278-290.	3.0	19
115	A First-Order Hybrid Petri Net Model for Supply Chain Management. IEEE Transactions on Automation Science and Engineering, 2009, 6, 744-758.	5.2	44
116	Identification of DES Unobservable Behaviour by Petri Nets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 99-104.	0.4	1
117	Real time identification of discrete event systems using Petri nets. Automatica, 2008, 44, 1209-1219.	5.0	68
118	Fault monitoring of automated manufacturing systems by first order hybrid Petri nets. , 2008, , .		5
119	Fault diagnosis and identification of discrete event systems using Petri nets. , 2008, , .		24
120	An urban traffic network model by first order hybrid Petri nets. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	15
121	Deadlock Detection and Avoidance Strategies for Automated Storage and Retrieval Systems. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 541-552.	2.9	30
122	Comparing management policies for Supply Chains via a hybrid Petri Net model. , 2007, , .		3
123	On Line Identification of Discrete Event Systems via Petri Nets: an Application to Monitor Specification. , 2007, , .		0
124	Service Computing for Design and Reconfiguration of Integrated E-Supply Chains. , 2007, , 322-355.		0
125	An Optimization Approach for Identification of Petri Nets. , 2006, , .		9
126	A signal timing plan formulation for urban traffic control. Control Engineering Practice, 2006, 14, 1297-1311.	5.5	102

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127	An urban traffic network model via coloured timed Petri nets. Control Engineering Practice, 2006, 14, 1213-1229.	5.5	72
128	On-Line Identification of Discrete Event Systems by Interpreted Petri Nets. , 2006, , .		5
129	Modelling Distributed Manufacturing Systems Via First Order Hybrid Petri Nets. , 2006, , 44-49.		3
130	On-Line Identification of Discrete Event Systems: a Case Study. , 2006, , .		2
131	A coloured Petri net model for automated storage and retrieval systems serviced by rail-guided vehicles: A control perspective. International Journal of Computer Integrated Manufacturing, 2005, 18, 122-136.	4.6	52
132	Event-based controller to avoid deadlock and collisions in zone-control AGVS. International Journal of Production Research, 2002, 40, 1453-1478.	7.5	92
133	Controllability of linear single-input positive discrete-time systems. International Journal of Control, 1989, 50, 2523-2542.	1.9	34
134	Structurally fixed modes or systems described by Rosenbrock's polynomial matrices. International Journal of Control, 1988, 48, 1947-1965.	1.9	1