

Simona Sacone

List of Publications by Year in descending order

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85
papers

921
citations

516561

16
h-index

552653

26
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86
all docs

86
docs citations

86
times ranked

565
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-class freeway traffic regulation to reduce congestion and emissions via nonlinear optimal control. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 55, 85-99.	3.9	62
2	Event-triggered model predictive schemes for freeway traffic control. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 58, 554-567.	3.9	55
3	A multi-class model-based control scheme for reducing congestion and emissions in freeway networks by combining ramp metering and route guidance. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 80, 384-408.	3.9	55
4	Freeway Traffic Modelling and Control. <i>Advances in Industrial Control</i> , 2018, , .	0.4	53
5	Freeway traffic control: A survey. <i>Automatica</i> , 2021, 130, 109655.	3.0	43
6	Modelling and Optimal Receding-horizon Control of Maritime Container Terminals. <i>Mathematical Modelling and Algorithms</i> , 2007, 6, 109-133.	0.5	41
7	Neural approximations for feedback optimal control of freeway systems. <i>IEEE Transactions on Vehicular Technology</i> , 2001, 50, 302-313.	3.9	40
8	Freeways as Systems of Systems: A Distributed Model Predictive Control Scheme. <i>IEEE Systems Journal</i> , 2015, 9, 312-323.	2.9	37
9	An Event-Triggered Receding-Horizon Scheme for Planning Rail Operations in Maritime Terminals. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 365-375.	4.7	31
10	Cooperation among truck carriers in seaport containerized transportation. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2016, 93, 38-56.	3.7	29
11	An event-triggered Model Predictive Control scheme for freeway systems. , 2012, , .		26
12	An integrated simulation-optimization framework for the operational planning of seaport container terminals. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2009, 15, 275-293.	1.4	25
13	Modeling and solving the train load planning problem in seaport container terminals. , 2011, , .		24
14	Stable hybrid control based on discrete-event automata and receding-horizon neural regulators. <i>Automatica</i> , 2001, 37, 1279-1292.	3.0	23
15	Design of networked freeway traffic controllers based on event-triggered control concepts. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 1162-1183.	2.1	22
16	Freight transportation in railway networks with automated terminals: A mathematical model and MIP heuristic approaches. <i>European Journal of Operational Research</i> , 2011, 214, 588-594.	3.5	19
17	A control scheme for freeway traffic systems based on hybrid automata. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2012, 22, 3-25.	0.6	18
18	Optimal Control for Reducing Congestion and Improving Safety in Freeway Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 3613-3625.	4.7	17

#	ARTICLE	IF	CITATIONS
19	Ramp metering control for two vehicle classes to reduce traffic emissions in freeway systems. , 2014, , .		16
20	An MILP Optimization Problem for Sizing Port Rail Networks and Planning Shunting Operations in Container Terminals. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1492-1503.	3.4	14
21	An Overview of Traffic Control Schemes for Freeway Systems. Advances in Industrial Control, 2018, , 193-234.	0.4	13
22	Deterministic timed event graphs for performance optimization of cyclic manufacturing processes. IEEE Transactions on Automation Science and Engineering, 1997, 13, 169-181.	2.4	12
23	Hierarchical Centralized/Decentralized Event-Triggered Control of Multiclass Traffic Networks. IEEE Transactions on Control Systems Technology, 2021, 29, 1549-1564.	3.2	12
24	INTRANET: A new simulation tool for intermodal transportation systems. Simulation Modelling Practice and Theory, 1996, 4, 47-64.	0.4	11
25	Optimal ramp metering and variable speed signs for multiclass freeway traffic. , 2007, , .		11
26	Combining Multiple Trips in a Port Environment for Empty Movements Minimization. Transportation Research Procedia, 2015, 10, 694-703.	0.8	11
27	The port as a system of systems: A System Dynamics simulation approach. , 2012, , .		10
28	A New Emission Model Including On-ramps for Two-Class Freeway Traffic Control. , 2015, , .		10
29	Model Predictive Control for multiclass freeway traffic. , 2009, , .		10
30	Two-class emission traffic control for freeway systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 936-941.	0.4	9
31	Multi-class local ramp metering to reduce traffic emissions in freeway systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 43-48.	0.4	8
32	Event-triggered strategies for the networked control of freeway traffic systems. , 2014, , .		8
33	Distributed consensus-based switched observers for freeway traffic density estimation. , 2015, , .		8
34	Supervisory Model Predictive Control for freeway traffic systems. , 2013, , .		7
35	Switched observer-based ramp metering controllers for freeway systems. , 2016, , .		7
36	State Estimation in Freeway Traffic Systems. Advances in Industrial Control, 2018, , 169-190.	0.4	6

#	ARTICLE	IF	CITATIONS
37	A progressive traffic assignment procedure on networks affected by disruptive events. , 2020, , .		6
38	A HYBRID MODEL FOR OPTIMAL CONTROL OF SINGLE NODES IN SUPPLY CHAINS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 7-12.	0.4	5
39	Optimization of inventory levels and production effort in Hybrid Inventory-Production (HIP) systems. , 2008, , .		5
40	A switched ramp-metering controller for freeway traffic systems. IFAC-PapersOnLine, 2015, 48, 105-110.	0.5	5
41	Freeway Traffic Control Considering Capacity Drop Phenomena: Comparison of Different MPC Schemes. , 2015, , .		5
42	Second-Order Macroscopic Traffic Models. Advances in Industrial Control, 2018, , 85-111.	0.4	5
43	Microscopic and Mesoscopic Traffic Models. Advances in Industrial Control, 2018, , 113-143.	0.4	5
44	Case-study based performance assessment of an event-triggered MPC scheme for freeway systems. , 2013, , .		5
45	Modelling and Performance Analysis of Urban Transportation Networks. Transportation Analysis, 1996, , 93-116.	0.1	4
46	A planning approach for freight transportation operations in railway networks. , 2008, , .		4
47	Integer programming and ant colony optimization for planning intermodal freight transportation operations. , 2011, , .		4
48	A decomposition approach for optimizing truck trips for a single carrier. , 2013, , .		4
49	Time-varying triggering conditions for the robust control of freeway systems. , 2014, , .		4
50	Model-based event-triggered control for freeway traffic systems. , 2015, , .		4
51	Optimal Control of Production Processes with Variable Execution Times. Discrete Event Dynamic Systems: Theory and Applications, 2009, 19, 423-448.	0.6	3
52	Distributed Model Predictive Control for MLD systems: Application to freeway ramp metering. , 2014, , .		3
53	First-Order Macroscopic Traffic Models. Advances in Industrial Control, 2018, , 47-84.	0.4	3
54	Optimization of time-varying feedback controller parameters for freeway networks. Optimal Control Applications and Methods, 2022, 43, 65-85.	1.3	3

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55	On optimizing replenishment policies in production nodes of supply chain models. , 2007, , .		3
56	Optimization of multi-product nodes in supply chains. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	2
57	Multiclass freeway traffic: Model Predictive Control and microscopic simulation. , 2008, , .		2
58	Optimal control of manufacturing processes in Hybrid Inventory-Production systems. , 2009, , .		2
59	On an implicit and stable resolution scheme for the Payneâ€“Whitham model. Mathematical and Computer Modelling, 2011, 54, 378-387.	2.0	2
60	Asynchronous regulation of service speed in inventory-production systems with time-varying positive demand. , 2011, , .		2
61	A hybrid automaton for multi-class ramp metering in freeway systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 344-349.	0.4	2
62	Computational analysis of freeway traffic control based on a linearized prediction model. , 2013, , .		2
63	Simulation-based assessment of natural robustness of freeway traffic systems controlled via MPC. , 2014, , .		2
64	Modeling and Simulation of the Rail Port Cycle. IEEE Systems Journal, 2015, 9, 273-282.	2.9	2
65	Optimizing multiple truck trips in a cooperative environment. , 2016, , .		2
66	Towards the Physical Internet Paradigm: A Model for Transportation Planning in Complex Road Networks with Empty Return Optimization. Lecture Notes in Computer Science, 2017, , 452-467.	1.0	2
67	Freeway Traffic Systems. Advances in Industrial Control, 2018, , 3-23.	0.4	2
68	Emission Models for Freeway Traffic Systems. Advances in Industrial Control, 2018, , 145-167.	0.4	2
69	Control Strategies for Sustainable Mobility in Freeways. Advances in Industrial Control, 2018, , 269-291.	0.4	2
70	A HYBRID CONTROL SCHEME FOR FREEWAY SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 108-113.	0.4	1
71	Optimal Vendor-Managed Inventory policies in distribution systems with discrete-event processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 444-449.	0.4	1
72	A discrete-time model for optimizing the rail port cycle. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 83-88.	0.4	1

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73	A receding-horizon planning approach for rail operations in seaport container terminals. , 2013, , .		1
74	Editorial for the Special Issue on recent trends in traffic modelling and control. International Journal of Robust and Nonlinear Control, 2016, 26, 1159-1161.	2.1	1
75	Maximizing road carriers profit by combining trips and sizing the carrier coalition. , 2017, , .		1
76	Implementation-Oriented Freeway Traffic Control Strategies. Advances in Industrial Control, 2018, , 235-267.	0.4	1
77	Emerging Freeway Traffic Control Strategies. Advances in Industrial Control, 2018, , 293-311.	0.4	1
78	On optimizing production nofed in supply chain systems. Lecture Notes in Economics and Mathematical Systems, 2009, , 149-174.	0.3	1
79	Freeway Traffic Modeling: Extension to Different Vehicle Classes and Numerical Analysis. , 2007, , .		0
80	Service rate optimization in inventory-production systems with time-varying and incomplete deterministic demand. , 2009, , .		0
81	Optimal control of freeway systems based on a linearized prediction model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10715-10720.	0.4	0
82	Inventory optimization of distribution networks with discrete-event processes by vendor-managed policies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9524-9529.	0.4	0
83	A mathematical framework for the planning and control of complex systems. , 2012, , .		0
84	Optimal Shipment Policies for Distribution Systems With a Limited Fleet of Capacitated Vehicles. IEEE Transactions on Automation Science and Engineering, 2014, 11, 948-953.	3.4	0
85	Linear optimal control strategies for production systems with a discrete-event demand pattern. Discrete Event Dynamic Systems: Theory and Applications, 2014, 24, 339-352.	0.6	0