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List of Publications by Year in descending order

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34
papers

1,703
citations

567144

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34
all docs

34
docs citations

34
times ranked

1039
citing authors

#	ARTICLE	IF	CITATIONS
1	Model predictive control for optimal coordination of ramp metering and variable speed limits. Transportation Research Part C: Emerging Technologies, 2005, 13, 185-209.	3.9	470
2	Optimal Coordination of Variable Speed Limits to Suppress Shock Waves. IEEE Transactions on Intelligent Transportation Systems, 2005, 6, 102-112.	4.7	322
3	Distributed model predictive control of irrigation canals. Networks and Heterogeneous Media, 2009, 4, 359-380.	0.5	182
4	Fast Model Predictive Control for Urban Road Networks via MILP. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 846-856.	4.7	170
5	Global Versus Local MPC Algorithms in Freeway Traffic Control With Ramp Metering and Variable Speed Limits. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1556-1565.	4.7	87
6	Hybrid model predictive control for freeway traffic using discrete speed limit signals. Transportation Research Part C: Emerging Technologies, 2014, 46, 309-325.	3.9	46
7	Distributed model predictive control for cooperative synchomodal freight transport. Transportation Research, Part E: Logistics and Transportation Review, 2017, 105, 240-260.	3.7	46
8	Macroscopic modeling of variable speed limits on freeways. Transportation Research Part C: Emerging Technologies, 2019, 100, 15-33.	3.9	38
9	Integrated Model Predictive Traffic and Emission Control Using a Piecewise-Affine Approach. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 587-598.	4.7	36
10	Macroscopic Modeling and Control of Reversible Lanes on Freeways. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 948-959.	4.7	36
11	Centralized and distributed Model Predictive Control for the maximization of the thermal power of solar parabolic-trough plants. Solar Energy, 2020, 204, 190-199.	2.9	29
12	A light clustering model predictive control approach to maximize thermal power in solar parabolic-trough plants. Solar Energy, 2021, 214, 531-541.	2.9	27
13	Multi-robot task allocation problem with multiple nonlinear criteria using branch and bound and genetic algorithms. Intelligent Service Robotics, 2021, 14, 707-727.	1.6	26
14	Feed-Forward ALINEA: A Ramp Metering Control Algorithm for Nearby and Distant Bottlenecks. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2448-2458.	4.7	25
15	Feasible Cooperation based Model Predictive Control for freeway traffic systems. , 2011, , .		22
16	Model predictive control based on deep learning for solar parabolic-trough plants. Renewable Energy, 2021, 180, 193-202.	4.3	19
17	Model Predictive Traffic Control Based on a New Multi-Class METANET Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8781-8786.	0.4	15
18	Robust receding horizon parameterized control for multi-class freeway networks: A tractable scenario-based approach. International Journal of Robust and Nonlinear Control, 2016, 26, 1211-1245.	2.1	12

#	ARTICLE	IF	CITATIONS
19	SPERT: A Speed Limit Strategy for Recurrent Traffic Jams. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 692-703.	4.7	12
20	A Model Predictive Control scheme for freeway traffic systems based on the Classification And Regression Trees methodology. , 2015, , .		9
21	A new macroscopic model for Variable Speed Limits. IFAC-PapersOnLine, 2018, 51, 343-348.	0.5	9
22	Model Predictive Control for rail condition-based maintenance: A multilevel approach. , 2016, , .		8
23	Logic-Based Traffic Flow Control for Ramp Metering and Variable Speed Limitsâ€™Part 1: Controller. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2647-2657.	4.7	8
24	Distributed model predictive control of freeway traffic networks: A serial partially cooperative approach. , 2014, , .		7
25	Distributed MPC for Large Freeway Networks Using Alternating Optimization. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1875-1884.	4.7	7
26	Tractable robust predictive control approaches for freeway networks. , 2014, , .		6
27	A parameter identification algorithm for the METANET model with a limited number of loop detectors. , 2012, , .		5
28	Congestion Management in Motorways and Urban Networks Through a Bargaining-Game-Based Coordination Mechanism. Springer Series in Reliability Engineering, 2015, , 1-40.	0.3	5
29	Model predictive control for freeway traffic using discrete speed limit signals. , 2013, , .		5
30	Efficient Model Predictive Control for Variable Speed Limits by Optimizing Parameterized Control Schemes. , 2015, , .		4
31	Logic-Based Traffic Flow Control for Ramp Metering and Variable Speed Limitsâ€™Part 2: Simulation and Comparison. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2658-2668.	4.7	4
32	Model predictive traffic control for green mobility. , 2014, , .		2
33	A logic-based speed limit control algorithm for Variable Speed Limits to reduce traffic congestion at bottlenecks. , 2018, , .		2
34	A scenario-based distributed model predictive control approach for freeway networks. Transportation Research Part C: Emerging Technologies, 2022, 136, 103261.	3.9	2