

Bart De Schutter

List of Publications by Year in descending order

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578
papers

15,797
citations

31976

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586
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586
docs citations

586
times ranked

9705
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fixed-Wing UAV Formation Algorithm Based on Vector Field Guidance. IEEE Transactions on Automation Science and Engineering, 2023, 20, 179-192.	5.2	10
2	A traffic responsive control framework for signalized junctions based on hybrid traffic flow representation. Journal of Intelligent Transportation Systems: Technology, Planning, and Operations, 2023, 27, 606-625.	4.2	8
3	Distributed MPC for Large Freeway Networks Using Alternating Optimization. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1875-1884.	8.0	7
4	Distributed Adaptive Optimization With Weight-Balancing. IEEE Transactions on Automatic Control, 2022, 67, 2068-2075.	5.7	16
5	Real-Time UAV Routing Strategy for Monitoring and Inspection for Postdisaster Restoration of Distribution Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 2582-2592.	11.3	10
6	Distributed Model-Free Adaptive Predictive Control for Urban Traffic Networks. IEEE Transactions on Control Systems Technology, 2022, 30, 180-192.	5.2	21
7	An MPC-Based Rescheduling Algorithm for Disruptions and Disturbances in Large-Scale Railway Networks. IEEE Transactions on Automation Science and Engineering, 2022, 19, 99-112.	5.2	20
8	Intra-day scheduling of a local energy community coordinated with day-ahead multistage decisions. Sustainable Energy, Grids and Networks, 2022, 29, 100573.	3.9	12
9	A scenario-based distributed model predictive control approach for freeway networks. Transportation Research Part C: Emerging Technologies, 2022, 136, 103261.	7.6	2
10	Short-Term Traffic Flow Prediction Based on the Efficient Hinging Hyperplanes Neural Network. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15616-15628.	8.0	5
11	Hierarchical Model Predictive Control for On-Line High-Speed Railway Delay Management and Train Control in a Dynamic Operations Environment. IEEE Transactions on Control Systems Technology, 2022, 30, 2344-2359.	5.2	12
12	Towards an Ontology for Scenario Definition for the Assessment of Automated Vehicles: An Object-Oriented Framework. IEEE Transactions on Intelligent Vehicles, 2022, 7, 300-314.	12.7	25
13	Scenario Parameter Generation Method and Scenario Representativeness Metric for Scenario-Based Assessment of Automated Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 18794-18807.	8.0	18
14	Robust Optimal Control for Demand Side Management of Multi-Carrier Microgrids. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1338-1351.	5.2	43
15	Deep Learning for Object Detection and Segmentation in Videos: Toward an Integration With Domain Knowledge. IEEE Access, 2022, 10, 34562-34576.	4.2	4
16	Influence of hydrogen on grid investments for smart microgrids. International Journal of Electrical Power and Energy Systems, 2022, 141, 107968.	5.5	7
17	Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4936-4942.	9.3	21
18	Distributed Event-Triggered Model Predictive Control for Urban Traffic Lights. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4975-4985.	8.0	22

#	ARTICLE	IF	CITATIONS
19	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.	8.0	8
20	Analytic Expressions in Stochastic Max-Plus-Linear Algebra and their Application in Model Predictive Control. IEEE Transactions on Automatic Control, 2021, 66, 1872-1878.	5.7	0
21	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.	8.0	4
22	Optimal Control Strategies for Seasonal Thermal Energy Storage Systems With Market Interaction. IEEE Transactions on Control Systems Technology, 2021, 29, 1891-1906.	5.2	11
23	A market framework for grid balancing support through imbalances trading. Renewable and Sustainable Energy Reviews, 2021, 137, 110467.	16.4	4
24	Parametrized Model Predictive Control Approaches for Urban Traffic Networks. IFAC-PapersOnLine, 2021, 54, 284-291.	0.9	2
25	Variable Speed Limits for Traffic Efficiency Improvement. , 2021, , 33-40.		0
26	Influence of Measurement Uncertainty on Parameter Estimation and Fault Location for Transmission Lines. IEEE Transactions on Automation Science and Engineering, 2021, 18, 337-345.	5.2	23
27	Optimistic optimization for continuous nonconvex piecewise affine functions. Automatica, 2021, 125, 109476.	5.0	0
28	A Directed Spanning Tree Adaptive Control Solution to Time-Varying Formations. IEEE Transactions on Control of Network Systems, 2021, 8, 690-701.	3.7	15
29	Forecasting day-ahead electricity prices: A review of state-of-the-art algorithms, best practices and an open-access benchmark. Applied Energy, 2021, 293, 116983.	10.1	157
30	Controller design for stabilizing bilinear systems with state-based switching. Nonlinear Analysis: Hybrid Systems, 2021, 41, 101009.	3.5	0
31	Scenario-based nonlinear model predictive control for building heating systems. Energy and Buildings, 2021, 247, 111108.	6.7	13
32	A Short-Term Preventive Maintenance Scheduling Method for Distribution Networks With Distributed Generators and Batteries. IEEE Transactions on Power Systems, 2021, 36, 2516-2531.	6.5	18
33	An Efficient Dispersion Model for Control of Emission Levels in the Vicinity of Freeways. , 2021, , .		0
34	Risk Quantification for Automated Driving Systems in Real-World Driving Scenarios. IEEE Access, 2021, 9, 168953-168970.	4.2	13
35	Nonlinear Systems With Uncertain Periodically Disturbed Control Gain Functions: Adaptive Fuzzy Control With Invariance Properties. IEEE Transactions on Fuzzy Systems, 2020, 28, 746-757.	9.8	33
36	Power Scheduling of Fuel Cell Cars in an Islanded Mode Microgrid With Private Driving Patterns. IEEE Transactions on Control Systems Technology, 2020, 28, 1393-1403.	5.2	2

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37	A Single-Level Rule-Based Model Predictive Control Approach for Energy Management of Grid-Connected Microgrids. IEEE Transactions on Control Systems Technology, 2020, 28, 2364-2376.	5.2	32
38	Analysis and control of max-plus linear discrete-event systems: An introduction. Discrete Event Dynamic Systems: Theory and Applications, 2020, 30, 25-54.	1.5	17
39	Decomposition and distributed optimization of real-time traffic management for large-scale railway networks. Transportation Research Part B: Methodological, 2020, 141, 72-97.	5.9	28
40	Optimal Control for Precision Irrigation of a Large-Scale Plantation. Water Resources Research, 2020, 56, e2019WR026989.	4.2	11
41	A generalizable and sensor-independent deep learning method for fault detection and location in low-voltage distribution grids. Applied Energy, 2020, 276, 115299.	10.1	39
42	A Robust MPC Energy Scheduling Strategy for Multi-Carrier Microgrids. , 2020, , .		7
43	Model predictive scheduling of semi-cyclic discrete-event systems using switching max-plus linear models and dynamic graphs. Discrete Event Dynamic Systems: Theory and Applications, 2020, 30, 635-669.	1.5	8
44	Linear Positive Systems May Have a Reachable Subset from the Origin That is Either Polyhedral or Nonpolyhedral. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 279-307.	1.4	2
45	Corrections to "Model Predictive Control for Stochastic Max-Plus Linear Systems With Chance Constraints". IEEE Transactions on Automatic Control, 2020, 65, 905-906.	5.7	1
46	A non-centralized predictive control strategy for wind farm active power control: A wake-based partitioning approach. Renewable Energy, 2020, 150, 656-669.	8.9	24
47	A multi-class urban traffic model considering heterogeneous vehicle composition: An extension of the S model. Transportation Research Part C: Emerging Technologies, 2020, 115, 102613.	7.6	3
48	Structural Controllability of Switching Max-Plus Linear Systems. IFAC-PapersOnLine, 2020, 53, 1936-1942.	0.9	0
49	Framework for Studying Stability of Switching Max-Plus Linear Systems. IFAC-PapersOnLine, 2020, 53, 68-74.	0.9	0
50	A Markov Traffic Model for Signalized Traffic Networks Based on Bayesian Estimation. IFAC-PapersOnLine, 2020, 53, 15029-15034.	0.9	0
51	Real-World Scenario Mining for the Assessment of Automated Vehicles. , 2020, , .		12
52	SPERT: A Speed Limit Strategy for Recurrent Traffic Jams. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 692-703.	8.0	12
53	Model Predictive Control for Stochastic Max-Plus Linear Systems With Chance Constraints. IEEE Transactions on Automatic Control, 2019, 64, 337-342.	5.7	17
54	Corrections to "Integrated Urban Traffic Control for the Reduction of Travel Delays and Emissions" [Dec 13 1609-1619]. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 1978-1983.	8.0	7

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55	Integrated condition-based track maintenance planning and crew scheduling of railway networks. Transportation Research Part C: Emerging Technologies, 2019, 105, 359-384.	7.6	30
56	Comparison of Bounds for Optimal PMU Placement for State Estimation in Distribution Grids. IEEE Transactions on Power Systems, 2019, 34, 4837-4846.	6.5	19
57	Safety assessment of automated vehicles: how to determine whether we have collected enough field data?. Traffic Injury Prevention, 2019, 20, S162-S170.	1.4	19
58	Efficient Convex optimization for Optimal PMU Placement in Large Distribution Grids. , 2019, , .		4
59	Railway disruption: a bi-level rescheduling algorithm. , 2019, , .		13
60	Macroscopic modeling of variable speed limits on freeways. Transportation Research Part C: Emerging Technologies, 2019, 100, 15-33.	7.6	38
61	A 1-dimensional continuous and smooth model for thermally stratified storage tanks including mixing and buoyancy. Applied Energy, 2019, 248, 640-655.	10.1	28
62	Freeway Traffic Management and Control. , 2019, , 167-193.		0
63	Distributed Chance-Constrained Model Predictive Control for Condition-Based Maintenance Planning for Railway Infrastructures. , 2019, , 533-554.		0
64	Online partitioning method for decentralized control of linear switching large-scale systems. Journal of the Franklin Institute, 2019, 356, 3290-3313.	3.4	11
65	Feed-Forward ALINEA: A Ramp Metering Control Algorithm for Nearby and Distant Bottlenecks. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2448-2458.	8.0	25
66	A Hydrogen-Based Integrated Energy and Transport System: The Design and Analysis of the Car as Power Plant Concept. IEEE Systems, Man, and Cybernetics Magazine, 2019, 5, 37-50.	1.4	29
67	Efficient Freeway MPC by Parameterization of ALINEA and a Speed-Limited Area. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 16-29.	8.0	17
68	Forecasting spot electricity prices: Deep learning approaches and empirical comparison of traditional algorithms. Applied Energy, 2018, 221, 386-405.	10.1	399
69	Reinforcement Learning Applied to an Electric Water Heater: From Theory to Practice. IEEE Transactions on Smart Grid, 2018, 9, 3792-3800.	9.0	112
70	An algorithm for estimating the generalized fundamental traffic variables from point measurements using initial conditions. Transportmetrica B, 2018, 6, 251-285.	2.3	1
71	Sustainable Model-Predictive Control in Urban Traffic Networks: Efficient Solution Based on General Smoothing Methods. IEEE Transactions on Control Systems Technology, 2018, 26, 813-827.	5.2	44
72	Multi-Agent Dynamic Routing of a Fleet of Cybercars. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1340-1352.	8.0	11

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73	Optimistic planning with an adaptive number of action switches for near-optimal nonlinear control. Engineering Applications of Artificial Intelligence, 2018, 67, 355-367.	8.1	0
74	Robust adaptive tracking control of uncertain slowly switched linear systems. Nonlinear Analysis: Hybrid Systems, 2018, 27, 1-12.	3.5	47
75	Forecasting day-ahead electricity prices in Europe: The importance of considering market integration. Applied Energy, 2018, 211, 890-903.	10.1	172
76	A novel Lyapunov function for a non-weighted L gain of asynchronously switched linear systems. Automatica, 2018, 87, 310-317.	5.0	110
77	A node current-based 2-index formulation for the fixed-destination multi-depot travelling salesman problem. European Journal of Operational Research, 2018, 265, 463-477.	5.7	14
78	A Parametrized Model Predictive Control Approach for Microgrids. , 2018, , .		12
79	Stochastic Optimal Power Flow in Distribution Grids under Uncertainty from State Estimation. , 2018, , .		2
80	Distributed constraint optimization for autonomous multi AUV mine counter-measures. , 2018, , .		2
81	A Two-Step Distribution System State Estimator with Grid Constraints and Mixed Measurements. , 2018, , .		9
82	A logic-based speed limit control algorithm for Variable Speed Limits to reduce traffic congestion at bottlenecks. , 2018, , .		2
83	A generalized model for short-term forecasting of solar irradiance. , 2018, , .		0
84	Stabilizing Controller Design for State-Based Switching Bilinear Systems. , 2018, , .		1
85	The interaction between scheduling and control of semi-cyclic hybrid systems. IFAC-PapersOnLine, 2018, 51, 212-217.	0.9	1
86	Distributed optimization for real-time railway traffic management. IFAC-PapersOnLine, 2018, 51, 106-111.	0.9	7
87	A new macroscopic model for Variable Speed Limits. IFAC-PapersOnLine, 2018, 51, 343-348.	0.9	9
88	Optimal scheduling of track maintenance activities for railway networks. IFAC-PapersOnLine, 2018, 51, 386-391.	0.9	10
89	Stochastic Link Flow Model for Signalized Traffic Networks with Uncertainty in Demand. IFAC-PapersOnLine, 2018, 51, 458-463.	0.9	10
90	Integrating Dynamic Signaling Commands Under Fixed-Block Signaling Systems into Train Dispatching Optimization Problems. Transportation Research Record, 2018, 2672, 275-287.	1.9	4

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91	Distributed Optimization for Railway Track Maintenance Operations Planning. , 2018, , .		3
92	A decision support approach for condition-based maintenance of rails based on big data analysis. Transportation Research Part C: Emerging Technologies, 2018, 95, 185-206.	7.6	52
93	Integration of real-time traffic management and train control for rail networks - Part 1: Optimization problems and solution approaches. Transportation Research Part B: Methodological, 2018, 115, 41-71.	5.9	70
94	Integration of real-time traffic management and train control for rail networks - Part 2: Extensions towards energy-efficient train operations. Transportation Research Part B: Methodological, 2018, 115, 72-94.	5.9	45
95	Flexible energy harvesting from natural gas distribution networks through line-bagging. Applied Energy, 2018, 229, 253-263.	10.1	11
96	Short-term forecasting of solar irradiance without local telemetry: A generalized model using satellite data. Solar Energy, 2018, 173, 566-577.	6.1	48
97	Adaptive Tracking Control of Switched Linear Systems Using Mode-Dependent Average Dwell Time. , 2018, , .		1
98	A Multiple-Model Reliability Prediction Approach for Condition-Based Maintenance. IEEE Transactions on Reliability, 2018, 67, 1364-1376.	4.6	19
99	Residential Demand Response of Thermostatically Controlled Loads Using Batch Reinforcement Learning. IEEE Transactions on Smart Grid, 2017, 8, 2149-2159.	9.0	232
100	Two-Level Hierarchical Model-Based Predictive Control for Large-Scale Urban Traffic Networks. IEEE Transactions on Control Systems Technology, 2017, 25, 496-508.	5.2	94
101	Combining knowledge and historical data for system-level fault diagnosis of HVAC systems. Engineering Applications of Artificial Intelligence, 2017, 59, 260-273.	8.1	55
102	Bayesian and Dempster-Shafer reasoning for knowledge-based fault diagnosis: A comparative study. Engineering Applications of Artificial Intelligence, 2017, 60, 136-150.	8.1	53
103	A multi-class model-based control scheme for reducing congestion and emissions in freeway networks by combining ramp metering and route guidance. Transportation Research Part C: Emerging Technologies, 2017, 80, 384-408.	7.6	55
104	On optimization of stochastic max-min-plus-scaling systems: An approximation approach. Automatica, 2017, 83, 20-27.	5.0	9
105	A Big Data Analysis Approach for Rail Failure Risk Assessment. Risk Analysis, 2017, 37, 1495-1507.	2.7	86
106	Hierarchical Game Theory for System-Optimal Control: Applications of Reverse Stackelberg Games in Regulating Marketing Channels and Traffic Routing. IEEE Control Systems, 2017, 37, 129-152.	0.8	25
107	A mesoscopic integrated urban traffic flow-emission model. Transportation Research Part C: Emerging Technologies, 2017, 75, 45-83.	7.6	61
108	Adaptive Asymptotic Tracking Control of Uncertain Time-Driven Switched Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 5802-5807.	5.7	106

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109	Multi-agent model predictive control based on resource allocation coordination for a class of hybrid systems with limited information sharing. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 58, 123-133.	8.1	10
110	Multi-level condition-based maintenance planning for railway infrastructures – A scenario-based chance-constrained approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 84, 92-123.	7.6	52
111	On robust adaptive control of switched linear systems. , 2017, , .		2
112	Identification of distributed-parameter systems from sparse measurements. <i>Applied Mathematical Modelling</i> , 2017, 51, 605-625.	4.2	9
113	Timely condition-based maintenance planning for multi-component systems. <i>Reliability Engineering and System Safety</i> , 2017, 159, 310-321.	8.9	62
114	Fuel cell cars in a microgrid for synergies between hydrogen and electricity networks. <i>Applied Energy</i> , 2017, 192, 296-304.	10.1	76
115	Distributed model predictive control for cooperative synchromodal freight transport. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017, 105, 240-260.	7.4	46
116	Model Predictive Control for Freeway Networks Based on Multi-Class Traffic Flow and Emission Models. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 306-320.	8.0	48
117	Power scheduling in islanded-mode microgrids using fuel cell vehicles. , 2017, , .		3
118	A Jacobi Decomposition Algorithm for Distributed Convex Optimization in Distributed Model Predictive Control * *Support by the Alexander von Humboldt Foundation, by EU via ERC-HIGHWIND (259 166), ITN-TEMPO (607 957), and ITN-AWESCO (642 682) and by DFG via the project Numerische Methoden zur optimierungsbasierten Regelung zyklischer Prozesse is gratefully acknowledged.. <i>IFAC-PapersOnLine</i> , 2017, 50, 4905-4911.	0.9	4
119	Near-optimal control with adaptive receding horizon for discrete-time piecewise affine systems * *This work was supported by the Chinese Scholarship Council, as well as by the Agence Universitaire de la Francophonie (AUF) and the Romanian Institute for Atomic Physics (IFA) under the AUF-RO project NETASSIST.. <i>IFAC-PapersOnLine</i> , 2017, 50, 4168-4173.	0.9	0
120	Optimal power scheduling of fuel-cell-car-based microgrids. , 2017, , .		3
121	Freeway Traffic Management and Control. , 2017, , 1-28.		4
122	Robust H_∞ switching control techniques for switched nonlinear systems with application to urban traffic control. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 1286-1306.	3.7	28
123	Robust receding horizon parameterized control for multi-class freeway networks: A tractable scenario-based approach. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 1211-1245.	3.7	12
124	Receding-horizon control for max-plus linear systems with discrete actions using optimistic planning. , 2016, , .		1
125	Integrated Line Planning and Train Scheduling for an Urban Rail Transit Line. <i>Transportation Research Record</i> , 2016, 2540, 66-75.	1.9	4
126	Min-max control of fuel-cell-car-based smart energy systems. , 2016, , .		8

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127	Optimal nonlinear solutions for reverse Stackelberg games with incomplete information. , 2016, , .		0
128	Robust model predictive control for an uncertain smart thermal grid. , 2016, , .		3
129	Scenario-based Distributed Model Predictive Control for freeway networks. , 2016, , .		3
130	Gradient-based model-predictive control for green urban mobility in traffic networks. , 2016, , .		0
131	Model Predictive Control for rail condition-based maintenance: A multilevel approach. , 2016, , .		8
132	Background: Train Operations and Scheduling. Advances in Industrial Control, 2016, , 7-21.	0.5	0
133	Irredundant lattice representations of continuous piecewise affine functions. Automatica, 2016, 70, 109-120.	5.0	16
134	Distributed model predictive control for railway traffic management. Transportation Research Part C: Emerging Technologies, 2016, 68, 462-489.	7.6	42
135	Optimal Trajectory Planning and Train Scheduling for Urban Rail Transit Systems. Advances in Industrial Control, 2016, , .	0.5	9
136	Optimal Trajectory Planning for Multiple Trains. Advances in Industrial Control, 2016, , 53-80.	0.5	0
137	OD-Dependent Train Scheduling for an Urban Rail Transit Network. Advances in Industrial Control, 2016, , 135-160.	0.5	0
138	Parameterized Dynamic Routing of a Fleet of Cybercars**This work was supported by the China Scholarship Council under Grant 201207090001.. IFAC-PapersOnLine, 2016, 49, 55-60.	0.9	1
139	Probabilistic Defect-Based Risk Assessment Approach for Rail Failures in Railway Infrastructure. IFAC-PapersOnLine, 2016, 49, 73-77.	0.9	25
140	Fault diagnosis using spatial and temporal information with application to railway track circuits. Engineering Applications of Artificial Intelligence, 2016, 56, 200-211.	8.1	15
141	A Model-Predictive Urban Traffic Control Approach with a Modified Flow Model and Endpoint Penalties**This research has been supported by COST ARTS and by the NWO-NFSC project "Multi-level predictive traffic control for large-scale urban networks" (629.001.011), which is partly financed by the Netherlands Organization for Scientific Research (NWO).. IFAC-PapersOnLine, 2016, 49, 147-152.	0.9	7
142	Optimistic optimization for model predictive control of max-plus linear systems. Automatica, 2016, 74, 16-22.	5.0	13
143	A multi-class ramp metering and routing control scheme to reduce congestion and traffic emissions in freeway networks. IFAC-PapersOnLine, 2016, 49, 329-334.	0.9	5
144	Model predictive control for continuous piecewise affine systems using optimistic optimization. , 2016, , .		3

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145	Model Predictive Control of an Automated Storage/Retrieval System. IFAC-PapersOnLine, 2016, 49, 1335-1340.	0.9	3
146	Deep convolutional neural networks for detection of rail surface defects. , 2016, , .		205
147	Chance-constrained model predictive controller synthesis for stochastic max-plus linear systems. , 2016, , .		2
148	Model-based predictive control for bicycling in urban intersections. Transportation Research Part C: Emerging Technologies, 2016, 70, 27-41.	7.6	16
149	Towards railway traffic management using switching Max-plus-linear systems. Discrete Event Dynamic Systems: Theory and Applications, 2016, 26, 183-223.	1.5	31
150	Optimal Affine Leader Functions in Reverse Stackelberg Games. Journal of Optimization Theory and Applications, 2016, 168, 348-374.	1.5	10
151	Synchronization of a class of cyclic discrete-event systems describing legged locomotion. Discrete Event Dynamic Systems: Theory and Applications, 2016, 26, 225-261.	1.5	9
152	Distributed MPC for frequency regulation in multi-terminal HVDC grids. Control Engineering Practice, 2016, 46, 176-187.	5.5	28
153	Robust Model Predictive Control for Train Regulation in Underground Railway Transportation. IEEE Transactions on Control Systems Technology, 2016, 24, 1075-1083.	5.2	65
154	An approximation method for computing the expected value of max-affine expressions. European Journal of Control, 2016, 27, 17-27.	2.6	9
155	Design of Stabilizing Switching Laws for Mixed Switched Affine Systems. IEEE Transactions on Automatic Control, 2016, 61, 1676-1681.	5.7	27
156	Minimal Conjunctive Normal Expression of Continuous Piecewise Affine Functions. IEEE Transactions on Automatic Control, 2016, 61, 1340-1345.	5.7	4
157	Integrated Predictive Control of Freeway Networks Using the Extended Link Transmission Model. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 65-78.	8.0	23
158	Optimal Trajectory Planning for a Single Train. Advances in Industrial Control, 2016, , 23-51.	0.5	0
159	Overview and Future Directions. Advances in Industrial Control, 2016, , 161-162.	0.5	0
160	OD-Dependent Train Scheduling for an Urban Rail Transit Line. Advances in Industrial Control, 2016, , 109-134.	0.5	0
161	A distributed algorithm to determine lower and upper bounds in branch and bound for hybrid Model Predictive Control. , 2015, , .		1
162	Time-Varying Scheme for Noncentralized Model Predictive Control of Large-Scale Systems. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	20

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163	Congestion Management in Motorways and Urban Networks Through a Bargaining-Game-Based Coordination Mechanism. Springer Series in Reliability Engineering, 2015, , 1-40.	0.5	5
164	A New Emission Model Including On-ramps for Two-Class Freeway Traffic Control. , 2015, , .		10
165	Integration of resource allocation coordination and branch-and-bound. , 2015, , .		4
166	Customer-Oriented Optimal Vehicle Assignment in Mobility-on-Demand Systems. , 2015, , .		1
167	Urban traffic control using a fuzzy multi-agent system. , 2015, , .		8
168	Efficient Model Predictive Control for Variable Speed Limits by Optimizing Parameterized Control Schemes. , 2015, , .		4
169	An iterative procedure for estimating the generalized average speed using microscopic point measurements. , 2015, , .		0
170	Human-in-the-loop control of an irrigation canal using time instant optimization Model Predictive Control. , 2015, , .		8
171	Exploiting spatial and temporal dependencies to enhance fault diagnosis: Application to railway track circuits. , 2015, , .		12
172	Reasoning under Uncertainty for Knowledge-Based Fault Diagnosis: A Comparative Study. IFAC-PapersOnLine, 2015, 48, 422-427.	0.9	7
173	Smoothering for Efficient Solution of Model Predictive Control for Urban Traffic Networks Considering Endpoint Penalties. , 2015, , .		3
174	A comparison of distributed MPC schemes on a hydroâ€power plant benchmark. Optimal Control Applications and Methods, 2015, 36, 306-332.	2.1	29
175	Introduction to the Special Issue on the 16th IEEE International Conference on Intelligent Transportation Systems (ITSC'13). IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 417-418.	8.0	2
176	Delivery-Oriented Hierarchical Predictive Control of an Irrigation Canal: Event-Driven Versus Time-Driven Approaches. IEEE Transactions on Control Systems Technology, 2015, 23, 1701-1716.	5.2	20
177	Toward System-Optimal Routing in Traffic Networks: A Reverse Stackelberg Game Approach. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 29-40.	8.0	41
178	An Integrated Model Predictive Scheme for Baggage-Handling Systems: Routing, Line Balancing, and Empty-Cart Management. IEEE Transactions on Control Systems Technology, 2015, 23, 1536-1545.	5.2	10
179	Efficient Real-Time Train Scheduling for Urban Rail Transit Systems Using Iterative Convex Programming. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 3337-3352.	8.0	54
180	Hierarchical MPC-Based Control of an Irrigation Canal. Operations Research/ Computer Science Interfaces Series, 2015, , 169-187.	0.3	2

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181	Multi-agent model-based predictive control for large-scale urban traffic networks using a serial scheme. IET Control Theory and Applications, 2015, 9, 475-484.	2.1	40
182	Estimation of the generalised average traffic speed based on microscopic measurements. Transportmetrica A: Transport Science, 2015, 11, 525-546.	2.0	10
183	Computational techniques for reachability analysis of Max-Plus-Linear systems. Automatica, 2015, 53, 293-302.	5.0	24
184	Co-design of traffic network topology and control measures. Transportation Research Part C: Emerging Technologies, 2015, 54, 56-73.	7.6	4
185	Pricing Intermodal Freight Transport Services: A Cost-Plus-Pricing Strategy. Lecture Notes in Computer Science, 2015, , 541-556.	1.3	5
186	Passenger-demands-oriented train scheduling for an urban rail transit network. Transportation Research Part C: Emerging Technologies, 2015, 60, 1-23.	7.6	168
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