

Bart De Schutter

List of Publications by Year in descending order

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578
papers

15,797
citations

31976

53
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29157

104
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586
all docs

586
docs citations

586
times ranked

9705
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comprehensive Survey of Multiagent Reinforcement Learning. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2008, 38, 156-172.	2.9	1,328
2	Equivalence of hybrid dynamical models. Automatica, 2001, 37, 1085-1091.	5.0	624
3	Model predictive control for optimal coordination of ramp metering and variable speed limits. Transportation Research Part C: Emerging Technologies, 2005, 13, 185-209.	7.6	470
4	Forecasting spot electricity prices: Deep learning approaches and empirical comparison of traditional algorithms. Applied Energy, 2018, 221, 386-405.	10.1	399
5	Optimal Coordination of Variable Speed Limits to Suppress Shock Waves. IEEE Transactions on Intelligent Transportation Systems, 2005, 6, 102-112.	8.0	322
6	Multi-agent Reinforcement Learning: An Overview. Studies in Computational Intelligence, 2010, , 183-221.	0.9	278
7	Model predictive control for max-plus-linear discrete event systems. Automatica, 2001, 37, 1049-1056.	5.0	244
8	Residential Demand Response of Thermostatically Controlled Loads Using Batch Reinforcement Learning. IEEE Transactions on Smart Grid, 2017, 8, 2149-2159.	9.0	232
9	Development of advanced driver assistance systems with vehicle hardware-in-the-loop simulations. Vehicle System Dynamics, 2006, 44, 569-590.	3.7	211
10	Deep convolutional neural networks for detection of rail surface defects. , 2016, , .		205
11	Multi-agent model predictive control for transportation networks: Serial versus parallel schemes. Engineering Applications of Artificial Intelligence, 2008, 21, 353-366.	8.1	203
12	Demand Response With Micro-CHP Systems. Proceedings of the IEEE, 2011, 99, 200-213.	21.3	200
13	Accelerated gradient methods and dual decomposition in distributed model predictive control. Automatica, 2013, 49, 829-833.	5.0	200
14	Optimal trajectory planning for trains " A pseudospectral method and a mixed integer linear programming approach. Transportation Research Part C: Emerging Technologies, 2013, 29, 97-114.	7.6	183
15	Distributed model predictive control of irrigation canals. Networks and Heterogeneous Media, 2009, 4, 359-380.	1.1	182
16	Model predictive control for ramp metering of motorway traffic: A case study. Control Engineering Practice, 2006, 14, 757-767.	5.5	176
17	Forecasting day-ahead electricity prices in Europe: The importance of considering market integration. Applied Energy, 2018, 211, 890-903.	10.1	172
18	Fast Model Predictive Control for Urban Road Networks via MILP. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 846-856.	8.0	170

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19	Robust output-feedback controller design via local BMI optimization. <i>Automatica</i> , 2004, 40, 1115-1127.	5.0	169
20	Passenger-demands-oriented train scheduling for an urban rail transit network. <i>Transportation Research Part C: Emerging Technologies</i> , 2015, 60, 1-23.	7.6	168
21	A comparative analysis of distributed MPC techniques applied to the HD-MPC four-tank benchmark. <i>Journal of Process Control</i> , 2011, 21, 800-815.	3.3	160
22	Efficient network-wide model-based predictive control for urban traffic networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2012, 24, 122-140.	7.6	157
23	Forecasting day-ahead electricity prices: A review of state-of-the-art algorithms, best practices and an open-access benchmark. <i>Applied Energy</i> , 2021, 293, 116983.	10.1	157
24	Traffic control and intelligent vehicle highway systems: a survey. <i>IET Intelligent Transport Systems</i> , 2011, 5, 38-52.	3.0	146
25	Stability Analysis and Nonlinear Observer Design Using Takagi-Sugeno Fuzzy Models. <i>Studies in Fuzziness and Soft Computing</i> , 2011, , .	0.8	137
26	Optimal Traffic Light Control for a Single Intersection. <i>European Journal of Control</i> , 1998, 4, 260-276.	2.6	128
27	Minimal state-space realization in linear system theory: an overview. <i>Journal of Computational and Applied Mathematics</i> , 2000, 121, 331-354.	2.0	124
28	Integrated macroscopic traffic flow, emission, and fuel consumption model for control purposes. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 31, 158-171.	7.6	123
29	Adaptive Cruise Control for a SMART Car: A Comparison Benchmark for MPC-PWA Control Methods. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 365-372.	5.2	118
30	Kalman Filter-Based Distributed Predictive Control of Large-Scale Multi-Rate Systems: Application to Power Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 27-39.	5.2	113
31	Reinforcement Learning Applied to an Electric Water Heater: From Theory to Practice. <i>IEEE Transactions on Smart Grid</i> , 2018, 9, 3792-3800.	9.0	112
32	A novel Lyapunov function for a non-weighted L_2 gain of asynchronously switched linear systems. <i>Automatica</i> , 2018, 87, 310-317.	5.0	110
33	Adaptive Asymptotic Tracking Control of Uncertain Time-Driven Switched Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 5802-5807.	5.7	106
34	Optimal Hybrid Perimeter and Switching Plans Control for Urban Traffic Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 464-478.	5.2	102
35	Two-Level Hierarchical Model-Based Predictive Control for Large-Scale Urban Traffic Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 496-508.	5.2	94
36	Efficient Bilevel Approach for Urban Rail Transit Operation With Stop-Skipping. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 2658-2670.	8.0	87

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37	A Big Data Analysis Approach for Rail Failure Risk Assessment. Risk Analysis, 2017, 37, 1495-1507.	2.7	86
38	Adaptive observers for TS fuzzy systems with unknown polynomial inputs. Fuzzy Sets and Systems, 2010, 161, 2043-2065.	2.7	84
39	Intermodal freight transport planning "A receding horizon control approach. Transportation Research Part C: Emerging Technologies, 2015, 60, 77-95.	7.6	79
40	On hybrid systems and closed-loop MPC systems. IEEE Transactions on Automatic Control, 2002, 47, 863-869.	5.7	78
41	Fuel cell cars in a microgrid for synergies between hydrogen and electricity networks. Applied Energy, 2017, 192, 296-304.	10.1	76
42	An ellipsoid algorithm for probabilistic robust controller design. Systems and Control Letters, 2003, 49, 365-375.	2.3	75
43	Modelling and control of discrete event systems using switching max-plus-linear systems. Control Engineering Practice, 2006, 14, 1199-1211.	5.5	75
44	A Predictive Traffic Controller for Sustainable Mobility Using Parameterized Control Policies. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1420-1429.	8.0	75
45	The extended linear complementarity problem. Mathematical Programming, 1995, 71, 289-325.	2.4	74
46	Traffic Management for Automated Highway Systems Using Model-Based Predictive Control. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 838-847.	8.0	72
47	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
48	Robust Model Predictive Control for Train Regulation in Underground Railway Transportation. IEEE Transactions on Control Systems Technology, 2016, 24, 1075-1083.	5.2	65
49	Multi-Agent Reinforcement Learning: A Survey. , 2006, , .		64
50	Towards automation of control software: A review of challenges in mechatronic design. Mechatronics, 2010, 20, 876-886.	3.3	64
51	Timely condition-based maintenance planning for multi-component systems. Reliability Engineering and System Safety, 2017, 159, 310-321.	8.9	62
52	Optimal Coordination of a Multiple HVDC Link System Using Centralized and Distributed Control. IEEE Transactions on Control Systems Technology, 2013, 21, 302-314.	5.2	61
53	A mesoscopic integrated urban traffic flow-emission model. Transportation Research Part C: Emerging Technologies, 2017, 75, 45-83.	7.6	61
54	Cross-Entropy Optimization of Control Policies With Adaptive Basis Functions. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 196-209.	5.0	58

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55	MPC for continuous piecewise-affine systems. <i>Systems and Control Letters</i> , 2004, 52, 179-192.	2.3	57
56	A comparison of filter configurations for freeway traffic state estimation. , 2006, , .		55
57	Combining knowledge and historical data for system-level fault diagnosis of HVAC systems. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 59, 260-273.	8.1	55
58	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.	7.6	55
59	Efficient Real-Time Train Scheduling for Urban Rail Transit Systems Using Iterative Convex Programming. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015, 16, 3337-3352.	8.0	54
60	Model-based predictive control applied to multi-carrier energy systems. , 2009, , .		53
61	Bayesian and Dempster-Šafer reasoning for knowledge-based fault diagnosis-ŠA comparative study. <i>Engineering Applications of Artificial Intelligence</i> , 2017, 60, 136-150.	8.1	53
62	Approximate dynamic programming with a fuzzy parameterization. <i>Automatica</i> , 2010, 46, 804-814.	5.0	52
63	Optimal trajectory planning for trains under fixed and moving signaling systems using mixed integer linear programming. <i>Control Engineering Practice</i> , 2014, 22, 44-56.	5.5	52
64	Multi-level condition-based maintenance planning for railway infrastructures -Š A scenario-based chance-constrained approach. <i>Transportation Research Part C: Emerging Technologies</i> , 2017, 84, 92-123.	7.6	52
65	A decision support approach for condition-based maintenance of rails based on big data analysis. <i>Transportation Research Part C: Emerging Technologies</i> , 2018, 95, 185-206.	7.6	52
66	Stability of Cascaded Fuzzy Systems and Observers. <i>IEEE Transactions on Fuzzy Systems</i> , 2009, 17, 641-653.	9.8	49
67	Considerations for model-based traffic control. <i>Transportation Research Part C: Emerging Technologies</i> , 2013, 35, 1-19.	7.6	49
68	Optimal Control of a Class of Linear Hybrid Systems with Saturation. <i>SIAM Journal on Control and Optimization</i> , 2000, 39, 835-851.	2.1	48
69	A survey on optimal trajectory planning for train operations. , 2011, , .		48
70	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
71	Short-term forecasting of solar irradiance without local telemetry: A generalized model using satellite data. <i>Solar Energy</i> , 2018, 173, 566-577.	6.1	48
72	Observers for linear distributed-parameter systems: A survey. , 2011, , .		47

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73	Robust adaptive tracking control of uncertain slowly switched linear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018, 27, 1-12.	3.5	47
74	Stability analysis and controller synthesis for hybrid dynamical systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4937-4960.	3.4	46
75	Hybrid model predictive control for freeway traffic using discrete speed limit signals. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 46, 309-325.	7.6	46
76	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
77	Integration of real-time traffic management and train control for rail networks - Part 2: Extensions towards energy-efficient train operations. <i>Transportation Research Part B: Methodological</i> , 2018, 115, 72-94.	5.9	45
78	Integrated Urban Traffic Control for the Reduction of Travel Delays and Emissions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2013, 14, 1609-1619.	8.0	44
79	Sustainable Model-Predictive Control in Urban Traffic Networks: Efficient Solution Based on General Smoothing Methods. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 813-827.	5.2	44
80	Stabilization of switched affine systems: An application to the buck-boost converter. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	43
81	Optimal Steady-State Control for Isolated Traffic Intersections. <i>IEEE Transactions on Automatic Control</i> , 2010, 55, 2612-2617.	5.7	43
82	Optimal dynamic route guidance: A model predictive approach using the macroscopic fundamental diagram. , 2013, , .		43
83	Robust Optimal Control for Demand Side Management of Multi-Carrier Microgrids. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 1338-1351.	5.2	43
84	Distributed model predictive control for railway traffic management. <i>Transportation Research Part C: Emerging Technologies</i> , 2016, 68, 462-489.	7.6	42
85	Optimal coordination of ramp metering and variable speed control-an MPC approach. , 2002, , .		41
86	Toward System-Optimal Routing in Traffic Networks: A Reverse Stackelberg Game Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015, 16, 29-40.	8.0	41
87	Multi-agent model-based predictive control for large-scale urban traffic networks using a serial scheme. <i>IET Control Theory and Applications</i> , 2015, 9, 475-484.	2.1	40
88	A macroscopic traffic flow model for integrated control of freeway and urban traffic networks. , 0, , .		39
89	Online least-squares policy iteration for reinforcement learning control. , 2010, , .		39
90	A generalizable and sensor-independent deep learning method for fault detection and location in low-voltage distribution grids. <i>Applied Energy</i> , 2020, 276, 115299.	10.1	39

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91	Minimal realization in the max algebra is an extended linear complementarity problem. Systems and Control Letters, 1995, 25, 103-111.	2.3	38
92	Macroscopic modeling of variable speed limits on freeways. Transportation Research Part C: Emerging Technologies, 2019, 100, 15-33.	7.6	38
93	Coordination in urban water supply networks using distributed model predictive control. , 2010, , .		37
94	Optimizing acyclic traffic signal switching sequences through an Extended Linear Complementarity Problem formulation. European Journal of Operational Research, 2002, 139, 400-415.	5.7	36
95	Distributed Predictive Control for Energy Hub Coordination in Coupled Electricity and Gas Networks. , 2010, , 235-273.		36
96	Integrated Model Predictive Traffic and Emission Control Using a Piecewise-Affine Approach. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 587-598.	8.0	36
97	Model Predictive Control Approach for Recovery from Delays in Railway Systems. Transportation Research Record, 2002, 1793, 15-20.	1.9	35
98	Model-based predictive traffic control for intelligent vehicles: Dynamic speed limits and dynamic lane allocation. , 2008, , .		35
99	Reduction of travel times and traffic emissions using model predictive control. , 2009, , .		35
100	An iterative scheme for distributed model predictive control using Fenchel's duality. Journal of Process Control, 2011, 21, 746-755.	3.3	35
101	Distributed tree-based model predictive control on a drainage water system. Journal of Hydroinformatics, 2013, 15, 335-347.	2.4	35
102	Optimal traffic light control for a single intersection. , 1999, , .		33
103	On the ultimate behavior of the sequence of consecutive powers of a matrix in the max-plus algebra. Linear Algebra and Its Applications, 2000, 307, 103-117.	0.9	33
104	A fuzzy decision support system for traffic control centers. , 0, , .		33
105	Optimal trajectory planning for trains using mixed integer linear programming. , 2011, , .		33
106	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
107	Development of a driver information and warning system with vehicle hardware-in-the-loop simulations. Mechatronics, 2009, 19, 1091-1104.	3.3	32
108	Stabilization and robust H_∞ control for sector-bounded switched nonlinear systems. Automatica, 2014, 50, 2726-2731.	5.0	32

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109	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
110	Towards railway traffic management using switching Max-plus-linear systems. Discrete Event Dynamic Systems: Theory and Applications, 2016, 26, 183-223.	1.5	31
111	The Extended Linear Complementarity Problem and the Modeling and Analysis of Hybrid Systems. Lecture Notes in Computer Science, 1999, , 70-85.	1.3	31
112	A method to find all solutions of a system of multivariate polynomial equalities and inequalities in the max algebra. Discrete Event Dynamic Systems: Theory and Applications, 1996, 6, 115-138.	1.5	30
113	Approximate reinforcement learning: An overview. , 2011, , .		30
114	Ant Colony Routing algorithm for freeway networks. Transportation Research Part C: Emerging Technologies, 2013, 37, 1-19.	7.6	30
115	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
116	Properties of MPC for Max-Plus-Linear Systems. European Journal of Control, 2002, 8, 453-462.	2.6	29
117	Distributed Kalman filtering for cascaded systems. Engineering Applications of Artificial Intelligence, 2008, 21, 457-469.	8.1	29
118	Optimal routing for automated highway systems. Transportation Research Part C: Emerging Technologies, 2013, 30, 1-22.	7.6	29
119	A comparison of distributed MPC schemes on a hydroâ€power plant benchmark. Optimal Control Applications and Methods, 2015, 36, 306-332.	2.1	29
120	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
121	Model predictive control for perturbed max-plus-linear systems. Systems and Control Letters, 2002, 45, 21-33.	2.3	28
122	Supervisory nonlinear MPC for emergency voltage control using pattern search. Control Engineering Practice, 2009, 17, 841-848.	5.5	28
123	Model predictive control for residential energy resources using a mixed-logical dynamic model. , 2009, , .		28
124	Human-in-the-Loop Model Predictive Control of an Irrigation Canal [Applications of Control]. IEEE Control Systems, 2015, 35, 19-29.	0.8	28
125	Robust H_∞ switching control techniques for switched nonlinear systems with application to urban traffic control. International Journal of Robust and Nonlinear Control, 2016, 26, 1286-1306.	3.7	28
126	Distributed MPC for frequency regulation in multi-terminal HVDC grids. Control Engineering Practice, 2016, 46, 176-187.	5.5	28

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127	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
128	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
129	Multi-Agent Model Predictive Control of Transportation Networks. , 0, , .		27
130	Facilitating maintenance decisions on the Dutch railways using big data: The ABA case study. , 2014, , .		27
131	Multiobjective model predictive control for dynamic pickup and delivery problems. Control Engineering Practice, 2014, 32, 73-86.	5.5	27
132	Design of Stabilizing Switching Laws for Mixed Switched Affine Systems. IEEE Transactions on Automatic Control, 2016, 61, 1676-1681.	5.7	27
133	Hierarchical Traffic Control and Management with Intelligent Vehicles. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	26
134	Model predictive control for max-plus-linear systems. , 2000, , .		25
135	Decentralized Reinforcement Learning Control of a Robotic Manipulator. , 2006, , .		25
136	Ant Colony Optimization for traffic dispersion routing. , 2010, , .		25
137	Modeling and Control of Legged Locomotion via Switching Max-Plus Models. IEEE Transactions on Robotics, 2014, 30, 652-665.	10.3	25
138	Probabilistic Defect-Based Risk Assessment Approach for Rail Failures in Railway Infrastructure. IFAC-PapersOnLine, 2016, 49, 73-77.	0.9	25
139	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
140	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
141	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
142	Model predictive control for perturbed max-plus-linear systems: a stochastic approach. International Journal of Control, 2004, 77, 302-309.	1.9	24
143	Model-based traffic control for balanced reduction of fuel consumption, emissions, and travel time. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 149-154.	0.4	24
144	Computational techniques for reachability analysis of Max-Plus-Linear systems. Automatica, 2015, 53, 293-302.	5.0	24

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145	A non-centralized predictive control strategy for wind farm active power control: A wake-based partitioning approach. <i>Renewable Energy</i> , 2020, 150, 656-669.	8.9	24
146	On the equivalence of linear complementarity problems. <i>Operations Research Letters</i> , 2002, 30, 211-222.	0.7	23
147	MPC for discrete-event systems with soft and hard synchronization constraints. <i>International Journal of Control</i> , 2003, 76, 82-94.	1.9	23
148	Optimal Coordination of Variable Speed Limits to Suppress Shock Waves. <i>Transportation Research Record</i> , 2003, 1852, 167-174.	1.9	23
149	Supervisory hybrid model predictive control for voltage stability of power networks. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	23
150	Max-plus algebra and max-plus linear discrete event systems: An introduction. , 2008, , .		23
151	Integrated Predictive Control of Freeway Networks Using the Extended Link Transmission Model. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 65-78.	8.0	23
152	Influence of Measurement Uncertainty on Parameter Estimation and Fault Location for Transmission Lines. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 337-345.	5.2	23
153	MPC-based optimal coordination of variable speed limits to suppress shock waves in freeway traffic. , 0, , .		22
154	Shock wave elimination/reduction by optimal coordination of variable speed limits. , 0, , .		22
155	Robust control of constrained max-plus-linear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2009, 19, 218-242.	3.7	22
156	Model-Based Control for Route Choice in Automated Baggage Handling Systems. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2010, 40, 341-351.	2.9	22
157	Decentralized Kalman filter comparison for distributed-parameter systems: A case study for a 1D heat conduction process. , 2011, , .		22
158	Modeling and control of switching max-plus-linear systems with random and deterministic switching. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2012, 22, 293-332.	1.5	22
159	Weight optimisation for iterative distributed model predictive control applied to power networks. <i>Engineering Applications of Artificial Intelligence</i> , 2013, 26, 532-543.	8.1	22
160	Distributed Event-Triggered Model Predictive Control for Urban Traffic Lights. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021, 22, 4975-4985.	8.0	22
161	Integration of dynamic route guidance and freeway ramp metering using model predictive control. , 2004, , .		21
162	Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 4936-4942.	9.3	21

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163	Distributed Model-Free Adaptive Predictive Control for Urban Traffic Networks. IEEE Transactions on Control Systems Technology, 2022, 30, 180-192.	5.2	21
164	Model predictive control of fuel cell micro cogeneration systems. , 2009, , .		20
165	Finite Abstractions of Max-Plus-Linear Systems. IEEE Transactions on Automatic Control, 2013, 58, 3039-3053.	5.7	20
166	Optimal hybrid macroscopic traffic control for urban regions: Perimeter and switching signal plans controllers. , 2013, , .		20
167	Time-Varying Scheme for Noncentralized Model Predictive Control of Large-Scale Systems. Mathematical Problems in Engineering, 2015, 2015, 1-17.	1.1	20
168	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
169	Predictive Control for National Water Flow Optimization in The Netherlands. , 2010, , 439-461.		20
170	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
171	On the Sequence of Consecutive Powers of a Matrix in a Boolean Algebra. SIAM Journal on Matrix Analysis and Applications, 1999, 21, 328-354.	1.4	19
172	Modelling and control of discrete event systems using switching max-plus-linear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 117-122.	0.4	19
173	Least-cost model predictive control of residential energy resources when applying $\hat{1}^{\frac{1}{4}}$ CHP. , 2007, , .		19
174	Stabilization of max-plus-linear systems using model predictive control: The unconstrained case. Automatica, 2008, 44, 971-981.	5.0	19
175	Distributed control applied to combined electricity and natural gas infrastructures. , 2008, , .		19
176	A distributed optimization-based approach for hierarchical MPC of large-scale systems with coupled dynamics and constraints. , 2011, , .		19
177	A Multiple-Model Reliability Prediction Approach for Condition-Based Maintenance. IEEE Transactions on Reliability, 2018, 67, 1364-1376.	4.6	19
178	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
179	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
180	Model predictive control with repeated model fitting for ramp metering. , 0, , .		18

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181	Input signal design for identification of max-plus-linear systems. <i>Automatica</i> , 2006, 42, 937-943.	5.0	18
182	On Systematic Computation of Optimal Nonlinear Solutions for the Reverse Stackelberg Game. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2014, 44, 1315-1327.	9.3	18
183	A Short-Term Preventive Maintenance Scheduling Method for Distribution Networks With Distributed Generators and Batteries. <i>IEEE Transactions on Power Systems</i> , 2021, 36, 2516-2531.	6.5	18
184	Scenario Parameter Generation Method and Scenario Representativeness Metric for Scenario-Based Assessment of Automated Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 18794-18807.	8.0	18
185	On the equivalence of classes of hybrid dynamical models. , 0, , .		17
186	Model predictive control for perturbed continuous piecewise affine systems with bounded disturbances. , 2004, , .		17
187	Model Predictive Control for Multi-Class Traffic Flows. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 25-30.	0.4	17
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