

# Bart De Schutter

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

538  
papers

10,762  
citations

47  
h-index

88  
g-index

585  
ext. papers

13,260  
ext. citations

4  
avg. IF

6.82  
L-index

#	Paper	IF	Citations
538	Short-Term Traffic Flow Prediction Based on the Efficient Hinging Hyperplanes Neural Network. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-13	6.1	1
537	Hierarchical Model Predictive Control for on-Line High-Speed Railway Delay Management and Train Control in a Dynamic Operations Environment. <i>IEEE Transactions on Control Systems Technology</i> , <b>2022</b> , 1-16	4.8	1
536	Towards an Ontology for Scenario Definition for the Assessment of Automated Vehicles: An Object-Oriented Framework. <i>IEEE Transactions on Intelligent Vehicles</i> , <b>2022</b> , 1-1	5	3
535	A Fixed-Wing UAV Formation Algorithm Based on Vector Field Guidance. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-14	4.9	1
534	A scenario-based distributed model predictive control approach for freeway networks. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2022</b> , 136, 103261	8.4	0
533	Scenario Parameter Generation Method and Scenario Representativeness Metric for Scenario-Based Assessment of Automated Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-14	6.1	2
532	Robust Optimal Control for Demand Side Management of Multi-Carrier Microgrids. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2022</b> , 1-14	4.9	9
531	Deep Learning for Object Detection and Segmentation in Videos: Toward an Integration With Domain Knowledge. <i>IEEE Access</i> , <b>2022</b> , 10, 34562-34576	3.5	0
530	Influence of hydrogen on grid investments for smart microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2022</b> , 141, 107968	5.1	0
529	Intra-day scheduling of a local energy community coordinated with day-ahead multistage decisions. <i>Sustainable Energy, Grids and Networks</i> , <b>2021</b> , 100573	3.6	2
528	Risk Quantification for Automated Driving Systems in Real-World Driving Scenarios. <i>IEEE Access</i> , <b>2021</b> , 9, 168953-168970	3.5	2
527	A Short-Term Preventive Maintenance Scheduling Method for Distribution Networks With Distributed Generators and Batteries. <i>IEEE Transactions on Power Systems</i> , <b>2021</b> , 36, 2516-2531	7	4
526	Optimistic optimization for continuous nonconvex piecewise affine functions. <i>Automatica</i> , <b>2021</b> , 125, 109476	5.7	
525	A Directed Spanning Tree Adaptive Control Solution to Time-Varying Formations. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 8, 690-701	4	2
524	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 2647-2657	6.1	4
523	Analytic Expressions in Stochastic Max-Plus-Linear Algebra and their Application in Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 1872-1878	5.9	
522	Logic-Based Traffic Flow Control for Ramp Metering and Variable Speed LimitsPart 2: Simulation and Comparison. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2021</b> , 22, 2658-2668	6.1	2

521	Optimal Control Strategies for Seasonal Thermal Energy Storage Systems With Market Interaction. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 1891-1906	4.8	5
520	A market framework for grid balancing support through imbalances trading. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 137, 110467	16.2	3
519	Parametrized Model Predictive Control Approaches for Urban Traffic Networks. <i>IFAC-PapersOnLine</i> , <b>2021</b> , 54, 284-291	0.7	0
518	Variable Speed Limits for Traffic Efficiency Improvement <b>2021</b> , 33-40		
517	Distributed Adaptive Optimization with Weight-Balancing. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	2
516	Influence of Measurement Uncertainty on Parameter Estimation and Fault Location for Transmission Lines. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2021</b> , 18, 337-345	4.9	5
515	Real-time UAV routing strategy for monitoring and inspection for post-disaster restoration of distribution networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	4
514	Forecasting day-ahead electricity prices: A review of state-of-the-art algorithms, best practices and an open-access benchmark. <i>Applied Energy</i> , <b>2021</b> , 293, 116983	10.7	33
513	Controller design for stabilizing bilinear systems with state-based switching. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2021</b> , 41, 101009	4.5	
512	Scenario-based nonlinear model predictive control for building heating systems. <i>Energy and Buildings</i> , <b>2021</b> , 247, 111108	7	4
511	Distributed Model-Free Adaptive Predictive Control for Urban Traffic Networks. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 1-13	4.8	2
510	A Robust MPC Energy Scheduling Strategy for Multi-Carrier Microgrids <b>2020</b> ,		4
509	Distributed MPC for Large Freeway Networks Using Alternating Optimization. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-10	6.1	1
508	Model predictive scheduling of semi-cyclic discrete-event systems using switching max-plus linear models and dynamic graphs. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2020</b> , 30, 635-669 <sup>1</sup>		6
507	Distributed Event-Triggered Model Predictive Control for Urban Traffic Lights. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-11	6.1	8
506	Linear Positive Systems May Have a Reachable Subset from the Origin That is Either Polyhedral or Nonpolyhedral. <i>SIAM Journal on Matrix Analysis and Applications</i> , <b>2020</b> , 41, 279-307	1.5	2
505	Corrections to Model Predictive Control for Stochastic Max-Plus Linear Systems With Chance Constraints, <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 905-906	5.9	1
504	A non-centralized predictive control strategy for wind farm active power control: A wake-based partitioning approach. <i>Renewable Energy</i> , <b>2020</b> , 150, 656-669	8.1	11

503	A multi-class urban traffic model considering heterogeneous vehicle composition: An extension of the S model. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2020</b> , 115, 102613	8.4	1
502	Structural Controllability of Switching Max-Plus Linear Systems. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 1936-1942	0.7	
501	Framework for Studying Stability of Switching Max-Plus Linear Systems. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 68-74	0.7	
500	A Markov Traffic Model for Signalized Traffic Networks Based on Bayesian Estimation. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 15029-15034	0.7	
499	Real-World Scenario Mining for the Assessment of Automated Vehicles <b>2020</b> ,		3
498	An MPC-Based Rescheduling Algorithm for Disruptions and Disturbances in Large-Scale Railway Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2020</b> , 1-14	4.9	2
497	A Single-Level Rule-Based Model Predictive Control Approach for Energy Management of Grid-Connected Microgrids. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 2364-2376	4.8	14
496	Analysis and control of max-plus linear discrete-event systems: An introduction. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2020</b> , 30, 25-54	1	6
495	Decomposition and distributed optimization of real-time traffic management for large-scale railway networks. <i>Transportation Research Part B: Methodological</i> , <b>2020</b> , 141, 72-97	7.2	11
494	Optimal Control for Precision Irrigation of a Large-Scale Plantation. <i>Water Resources Research</i> , <b>2020</b> , 56, e2019WR026989	5.4	2
493	A generalizable and sensor-independent deep learning method for fault detection and location in low-voltage distribution grids. <i>Applied Energy</i> , <b>2020</b> , 276, 115299	10.7	12
492	Nonlinear Systems With Uncertain Periodically Disturbed Control Gain Functions: Adaptive Fuzzy Control With Invariance Properties. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2020</b> , 28, 746-757	8.3	20
491	Power Scheduling of Fuel Cell Cars in an Islanded Mode Microgrid With Private Driving Patterns. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 1393-1403	4.8	1
490	Comparison of Bounds for Optimal PMU Placement for State Estimation in Distribution Grids. <i>IEEE Transactions on Power Systems</i> , <b>2019</b> , 34, 4837-4846	7	9
489	Safety assessment of automated vehicles: how to determine whether we have collected enough field data?. <i>Traffic Injury Prevention</i> , <b>2019</b> , 20, S162-S170	1.8	8
488	Efficient Convex optimization for Optimal PMU Placement in Large Distribution Grids <b>2019</b> ,		1
487	Railway disruption: a bi-level rescheduling algorithm <b>2019</b> ,		3
486	Macroscopic modeling of variable speed limits on freeways. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2019</b> , 100, 15-33	8.4	29

485	A 1-dimensional continuous and smooth model for thermally stratified storage tanks including mixing and buoyancy. <i>Applied Energy</i> , <b>2019</b> , 248, 640-655	10.7	16
484	Freeway Traffic Management and Control <b>2019</b> , 167-193		
483	Distributed Chance-Constrained Model Predictive Control for Condition-Based Maintenance Planning for Railway Infrastructures <b>2019</b> , 533-554		
482	SPERT: A Speed Limit Strategy for Recurrent Traffic Jams. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2019</b> , 20, 692-703	6.1	9
481	Model Predictive Control for Stochastic Max-Plus Linear Systems With Chance Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 337-342	5.9	12
480	Corrections to Integrated Urban Traffic Control for the Reduction of Travel Delays and Emissions [Dec 13 1609-1619]. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2019</b> , 20, 1978-1983	6.1	5
479	Integrated condition-based track maintenance planning and crew scheduling of railway networks. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2019</b> , 105, 359-384	8.4	16
478	Online partitioning method for decentralized control of linear switching large-scale systems. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 3290-3313	4	5
477	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> , <b>2019</b> , 1-7	7.3	8
476	Feed-Forward ALINEA: A Ramp Metering Control Algorithm for Nearby and Distant Bottlenecks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2019</b> , 20, 2448-2458	6.1	15
475	A Hydrogen-Based Integrated Energy and Transport System: The Design and Analysis of the Car as Power Plant Concept. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , <b>2019</b> , 5, 37-50	1.6	17
474	Efficient Freeway MPC by Parameterization of ALINEA and a Speed-Limited Area. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2019</b> , 20, 16-29	6.1	10
473	Forecasting spot electricity prices: Deep learning approaches and empirical comparison of traditional algorithms. <i>Applied Energy</i> , <b>2018</b> , 221, 386-405	10.7	255
472	Reinforcement Learning Applied to an Electric Water Heater: From Theory to Practice. <i>IEEE Transactions on Smart Grid</i> , <b>2018</b> , 9, 3792-3800	10.7	73
471	An algorithm for estimating the generalized fundamental traffic variables from point measurements using initial conditions. <i>Transportmetrica B</i> , <b>2018</b> , 6, 251-285	1.8	1
470	Sustainable Model-Predictive Control in Urban Traffic Networks: Efficient Solution Based on General Smoothing Methods. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 813-827	4.8	27
469	Multi-Agent Dynamic Routing of a Fleet of Cybercars. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 1340-1352	6.1	10
468	Optimistic planning with an adaptive number of action switches for near-optimal nonlinear control. <i>Engineering Applications of Artificial Intelligence</i> , <b>2018</b> , 67, 355-367	7.2	

467	Robust adaptive tracking control of uncertain slowly switched linear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , <b>2018</b> , 27, 1-12	4.5	33
466	A decision support approach for condition-based maintenance of rails based on big data analysis. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2018</b> , 95, 185-206	8.4	27
465	Integration of real-time traffic management and train control for rail networks - Part 1: Optimization problems and solution approaches. <i>Transportation Research Part B: Methodological</i> , <b>2018</b> , 115, 41-71	7.2	32
464	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> , <b>2018</b> , 115, 72-94	7.2	24
463	Flexible energy harvesting from natural gas distribution networks through line-bagging. <i>Applied Energy</i> , <b>2018</b> , 229, 253-263	10.7	6
462	Short-term forecasting of solar irradiance without local telemetry: A generalized model using satellite data. <i>Solar Energy</i> , <b>2018</b> , 173, 566-577	6.8	30
461	A Multiple-Model Reliability Prediction Approach for Condition-Based Maintenance. <i>IEEE Transactions on Reliability</i> , <b>2018</b> , 67, 1364-1376	4.6	9
460	Forecasting day-ahead electricity prices in Europe: The importance of considering market integration. <i>Applied Energy</i> , <b>2018</b> , 211, 890-903	10.7	113
459	A novel Lyapunov function for a non-weighted L2 gain of asynchronously switched linear systems. <i>Automatica</i> , <b>2018</b> , 87, 310-317	5.7	74
458	A node current-based 2-index formulation for the fixed-destination multi-depot travelling salesman problem. <i>European Journal of Operational Research</i> , <b>2018</b> , 265, 463-477	5.6	10
457	A Parametrized Model Predictive Control Approach for Microgrids <b>2018</b> ,		8
456	Stochastic Optimal Power Flow in Distribution Grids under Uncertainty from State Estimation <b>2018</b> ,		1
455	A Two-Step Distribution System State Estimator with Grid Constraints and Mixed Measurements <b>2018</b> ,		7
454	A logic-based speed limit control algorithm for Variable Speed Limits to reduce traffic congestion at bottlenecks <b>2018</b> ,		2
453	<b>2018</b> ,		1
452	The interaction between scheduling and control of semi-cyclic hybrid systems. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 212-217	0.7	1
451	Distributed optimization for real-time railway traffic management. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 106-111b.7		1
450	A new macroscopic model for Variable Speed Limits. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 343-348	0.7	6

449	Optimal scheduling of track maintenance activities for railway networks. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 386-391	0.7	6
448	Stochastic Link Flow Model for Signalized Traffic Networks with Uncertainty in Demand. <i>IFAC-PapersOnLine</i> , <b>2018</b> , 51, 458-463	0.7	6
447	Integrating Dynamic Signaling Commands Under Fixed-Block Signaling Systems into Train Dispatching Optimization Problems. <i>Transportation Research Record</i> , <b>2018</b> , 2672, 275-287	1.7	3
446	Distributed Optimization for Railway Track Maintenance Operations Planning <b>2018</b> ,		3
445	Residential Demand Response of Thermostatically Controlled Loads Using Batch Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 2149-2159	10.7	153
444	Two-Level Hierarchical Model-Based Predictive Control for Large-Scale Urban Traffic Networks. <i>IEEE Transactions on Control Systems Technology</i> , <b>2017</b> , 25, 496-508	4.8	68
443	Combining knowledge and historical data for system-level fault diagnosis of HVAC systems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2017</b> , 59, 260-273	7.2	30
442	Bayesian and Dempster-Shafer reasoning for knowledge-based fault diagnosis: A comparative study. <i>Engineering Applications of Artificial Intelligence</i> , <b>2017</b> , 60, 136-150	7.2	29
441	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> , <b>2017</b> , 80, 384-408	8.4	39
440	On optimization of stochastic max-min-plus-scaling systems: An approximation approach. <i>Automatica</i> , <b>2017</b> , 83, 20-27	5.7	6
439	A Big Data Analysis Approach for Rail Failure Risk Assessment. <i>Risk Analysis</i> , <b>2017</b> , 37, 1495-1507	3.9	57
438	Hierarchical Game Theory for System-Optimal Control: Applications of Reverse Stackelberg Games in Regulating Marketing Channels and Traffic Routing. <i>IEEE Control Systems</i> , <b>2017</b> , 37, 129-152	2.9	17
437	A mesoscopic integrated urban traffic flow-emission model. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2017</b> , 75, 45-83	8.4	42
436	Adaptive Asymptotic Tracking Control of Uncertain Time-Driven Switched Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5802-5807	5.9	74
435	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> , <b>2017</b> , 58, 123-133	7.2	6
434	Multi-level condition-based maintenance planning for railway infrastructures: A scenario-based chance-constrained approach. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2017</b> , 84, 92-123	8.4	35
433	<b>2017</b> ,		2
432	Identification of distributed-parameter systems from sparse measurements. <i>Applied Mathematical Modelling</i> , <b>2017</b> , 51, 605-625	4.5	7



431	Timely condition-based maintenance planning for multi-component systems. <i>Reliability Engineering and System Safety</i> , <b>2017</b> , 159, 310-321	6.3	47
430	Fuel cell cars in a microgrid for synergies between hydrogen and electricity networks. <i>Applied Energy</i> , <b>2017</b> , 192, 296-304	10.7	48
429	Distributed model predictive control for cooperative synchromodal freight transport. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2017</b> , 105, 240-260	9	32
428	Model Predictive Control for Freeway Networks Based on Multi-Class Traffic Flow and Emission Models. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2017</b> , 18, 306-320	6.1	36
427	Power scheduling in islanded-mode microgrids using fuel cell vehicles <b>2017</b> ,		3
426	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	0.7	2
425	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> , <b>2017</b> , 50, 4168-4173	0.7	
424	Optimal power scheduling of fuel-cell-car-based microgrids <b>2017</b> ,		3
423	Integrated Predictive Control of Freeway Networks Using the Extended Link Transmission Model. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2016</b> , 17, 65-78	6.1	15
422	Model Predictive Control of an Automated Storage/Retrieval System. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 1335-1340	1.3	3
421	Deep convolutional neural networks for detection of rail surface defects <b>2016</b> ,		128
420	<b>2016</b> ,		2
419	Model-based predictive control for bicycling in urban intersections. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2016</b> , 70, 27-41	8.4	12
418	Towards railway traffic management using switching Max-plus-linear systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2016</b> , 26, 183-223	1	25
417	Optimal Affine Leader Functions in Reverse Stackelberg Games. <i>Journal of Optimization Theory and Applications</i> , <b>2016</b> , 168, 348-374	1.6	8
416	Synchronization of a class of cyclic discrete-event systems describing legged locomotion. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2016</b> , 26, 225-261	1	8
415	Distributed MPC for frequency regulation in multi-terminal HVDC grids. <i>Control Engineering Practice</i> , <b>2016</b> , 46, 176-187	3.9	21
414	Robust Model Predictive Control for Train Regulation in Underground Railway Transportation. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 1075-1083	4.8	50



413	An approximation method for computing the expected value of max-affine expressions. <i>European Journal of Control</i> , <b>2016</b> , 27, 17-27	2.5	9
412	Design of Stabilizing Switching Laws for Mixed Switched Affine Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1676-1681	5.9	19
411	Minimal Conjunctive Normal Expression of Continuous Piecewise Affine Functions. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1340-1345	5.9	2
410	Optimal Trajectory Planning for a Single Train. <i>Advances in Industrial Control</i> , <b>2016</b> , 23-51	0.3	
409	OD-Dependent Train Scheduling for an Urban Rail Transit Line. <i>Advances in Industrial Control</i> , <b>2016</b> , 109-134	0.3	
408	Robust H <sub>∞</sub> switching control techniques for switched nonlinear systems with application to urban traffic control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 1286-1306	3.6	17
407	Robust receding horizon parameterized control for multi-class freeway networks: A tractable scenario-based approach. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 1211-1245	3.6	9
406	Integrated Line Planning and Train Scheduling for an Urban Rail Transit Line. <i>Transportation Research Record</i> , <b>2016</b> , 2540, 66-75	1.7	3
405	Min-max control of fuel-cell-car-based smart energy systems <b>2016</b> ,		6
404	Robust model predictive control for an uncertain smart thermal grid <b>2016</b> ,		2
403	Scenario-based Distributed Model Predictive Control for freeway networks <b>2016</b> ,		1
402	Model Predictive Control for rail condition-based maintenance: A multilevel approach <b>2016</b> ,		5
401	Background: Train Operations and Scheduling. <i>Advances in Industrial Control</i> , <b>2016</b> , 7-21	0.3	
400	Irredundant lattice representations of continuous piecewise affine functions. <i>Automatica</i> , <b>2016</b> , 70, 109-120	3.7	6
399	Distributed model predictive control for railway traffic management. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2016</b> , 68, 462-489	8.4	23
398	Optimal Trajectory Planning and Train Scheduling for Urban Rail Transit Systems. <i>Advances in Industrial Control</i> , <b>2016</b> ,	0.3	9
397	Optimal Trajectory Planning for Multiple Trains. <i>Advances in Industrial Control</i> , <b>2016</b> , 53-80	0.3	
396	OD-Dependent Train Scheduling for an Urban Rail Transit Network. <i>Advances in Industrial Control</i> , <b>2016</b> , 135-160	0.3	

395	Parameterized Dynamic Routing of a Fleet of Cybercars**This work was supported by the China Scholarship Council under Grant 201207090001.. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 55-60	0.7	1
394	Probabilistic Defect-Based Risk Assessment Approach for Rail Failures in Railway Infrastructure. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 73-77	0.7	17
393	Fault diagnosis using spatial and temporal information with application to railway track circuits. <i>Engineering Applications of Artificial Intelligence</i> , <b>2016</b> , 56, 200-211	7.2	9
392	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). <i>IFAC-PapersOnLine</i> , <b>2016</b>	0.7	4
391	Optimistic optimization for model predictive control of max-plus linear systems. <i>Automatica</i> , <b>2016</b> , 74, 16-22	5.7	10
390	A multi-class ramp metering and routing control scheme to reduce congestion and traffic emissions in freeway networks. <i>IFAC-PapersOnLine</i> , <b>2016</b> , 49, 329-334	0.7	5
389	An Integrated Model Predictive Scheme for Baggage-Handling Systems: Routing, Line Balancing, and Empty-Cart Management. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 1536-1545	4.8	6
388	Efficient Real-Time Train Scheduling for Urban Rail Transit Systems Using Iterative Convex Programming. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 3337-3352	6.1	36
387	Hierarchical MPC-Based Control of an Irrigation Canal. <i>Operations Research/ Computer Science Interfaces Series</i> , <b>2015</b> , 169-187	0.3	1
386	Multi-agent model-based predictive control for large-scale urban traffic networks using a serial scheme. <i>IET Control Theory and Applications</i> , <b>2015</b> , 9, 475-484	2.5	28
385	Estimation of the generalised average traffic speed based on microscopic measurements. <i>Transportmetrica A: Transport Science</i> , <b>2015</b> , 11, 525-546	2.5	7
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372	Urban traffic control using a fuzzy multi-agent system <b>2015</b> ,		5
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305	A modeling framework for model predictive scheduling using switching max-plus linear models <b>2013,</b>		3
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302	Real-time scheduling for trains in urban rail transit systems using nonlinear optimization <b>2013,</b>		5
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275	Distributed identification of fuzzy confidence intervals for traffic measurements <b>2012</b> ,		3
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214	Fuzzy models and observers for freeway traffic state tracking <b>2010</b> ,	4
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211	Variable speed limits for area-wide reduction of emissions <b>2010</b> ,	4
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208	Model Predictive Control for urban traffic networks via MILP <b>2010</b> ,	2
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196	Online least-squares policy iteration for reinforcement learning control <b>2010</b> ,		21
195	An Approximation Approach for Model Predictive Control of Stochastic Max-Plus Linear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2010</b> , 43, 376-381		5
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184	Ant Colony Learning Algorithm for Optimal Control. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 155-182	0.8	1
183	Day-to-day route choice control in traffic networks with time-varying demand profiles <b>2009</b> ,		3
182	Coordinated distributed model predictive reach control of irrigation canals <b>2009</b> ,		7
181	Model predictive control of fuel cell micro cogeneration systems <b>2009</b> ,		14
180	Reduction of travel times and traffic emissions using model predictive control <b>2009</b> ,		22

179	MPC for max-plus-linear systems with an output cost criterion: steady-state behavior and guaranteed stability <b>2009</b> ,		2
178	Steady-state and N-stages control for isolated controlled intersections <b>2009</b> ,		4
177	Centralized versus decentralized route choice control in DCV-based baggage handling systems <b>2009</b> ,		3
176	Toward a flexible control design framework to automatically generate control code for mechatronic systems <b>2009</b> ,		6
175	Fuzzy Ant Colony Optimization for optimal control <b>2009</b> ,		12
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165	Model-based predictive control applied to multi-carrier energy systems <b>2009</b> ,		42
164	Optimal routing for intelligent vehicle highway systems using a macroscopic traffic flow model <b>2009</b> ,		9
163	Policy search with cross-entropy optimization of basis functions <b>2009</b> ,		5
162	Study on fast model predictive controllers for large urban traffic networks <b>2009</b> ,		7



161	Multi-agent control of traffic networks: Algorithm and case study <b>2009</b> ,		4
160	Switching Max-Plus models for legged locomotion <b>2009</b> ,		6
159	Hierarchical route choice control for baggage handling systems <b>2009</b> ,		3
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157	Optimization of maintenance for power system equipment using a predictive health model <b>2009</b> ,		3
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139	Economic advantages of applying model predictive control to distributed energy resources: The case of micro-CHP systems <b>2008</b> ,		2
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134	Travel time control of destination coded vehicles in baggage handling systems <b>2008</b> ,		10
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24	Multi-Agent Model Predictive Control of Transportation Networks		18
23	Anticipative model predictive control for ramp metering in freeway networks		10
22	Optimal coordination of variable speed limits to suppress shock waves		7
21	Integrated model predictive control of dynamic route guidance information systems and ramp metering		6
20	Anticipative ramp metering control using dynamic traffic assignment		2
19	A macroscopic traffic flow model for integrated control of freeway and urban traffic networks		29
18	A multi-agent case-based traffic control scenario evaluation system		10

17	A BMI optimization approach to robust output-feedback control	5
16	Robustly stabilizing MPC for perturbed PWL systems	5
15	Model predictive control for perturbed max-plus-linear systems: a stochastic approach	2
14	On hybrid systems and closed-loop MPC systems	1
13	On the equivalence of classes of hybrid dynamical models	11
12	Model predictive control for railway networks	9
11	A fuzzy decision support system for traffic control centers	10
10	Model predictive control with repeated model fitting for ramp metering	16
9	Shock wave elimination/reduction by optimal coordination of variable speed limits	17
8	Model predictive control for max-min-plus-scaling systems - efficient implementation	4
7	State space identification of max-plus-linear discrete event systems from input-output data	4
6	Connection and speed control in railway systems - a model predictive control approach	3
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4	Probabilistic Approach for Validation of Advanced Driver Assistance Systems	5
3	Test Bed for Multiagent Control Systems in Road Traffic Management	6
2	MPC-based optimal coordination of variable speed limits to suppress shock waves in freeway traffic	19
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