

# Bart De Schutter

## List of Publications by Citations

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538  
papers

10,762  
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47  
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585  
ext. papers

13,260  
ext. citations

4  
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6.82  
L-index

#	Paper	IF	Citations
538	A Comprehensive Survey of Multiagent Reinforcement Learning. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , <b>2008</b> , 38, 156-172		851
537	Equivalence of hybrid dynamical models. <i>Automatica</i> , <b>2001</b> , 37, 1085-1091	5.7	478
536	Model predictive control for optimal coordination of ramp metering and variable speed limits. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2005</b> , 13, 185-209	8.4	368
535	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
534	Optimal coordination of variable speed limits to suppress shock waves. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2005</b> , 6, 102-112	6.1	246
533	Model predictive control for max-plus-linear discrete event systems. <i>Automatica</i> , <b>2001</b> , 37, 1049-1056	5.7	193
532	Multi-agent model predictive control for transportation networks: Serial versus parallel schemes. <i>Engineering Applications of Artificial Intelligence</i> , <b>2008</b> , 21, 353-366	7.2	171
531	Demand Response With Micro-CHP Systems. <i>Proceedings of the IEEE</i> , <b>2011</b> , 99, 200-213	14.3	160
530	Distributed model predictive control of irrigation canals. <i>Networks and Heterogeneous Media</i> , <b>2009</b> , 4, 359-380	1.6	155
529	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
528	Development of advanced driver assistance systems with vehicle hardware-in-the-loop simulations. <i>Vehicle System Dynamics</i> , <b>2006</b> , 44, 569-590	2.8	153
527	Accelerated gradient methods and dual decomposition in distributed model predictive control. <i>Automatica</i> , <b>2013</b> , 49, 829-833	5.7	147
526	Model predictive control for ramp metering of motorway traffic: A case study. <i>Control Engineering Practice</i> , <b>2006</b> , 14, 757-767	3.9	139
525	Multi-agent Reinforcement Learning: An Overview. <i>Studies in Computational Intelligence</i> , <b>2010</b> , 183-221	0.8	135
524	Robust output-feedback controller design via local BMI optimization. <i>Automatica</i> , <b>2004</b> , 40, 1115-1127	5.7	133
523	Fast Model Predictive Control for Urban Road Networks via MILP. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2011</b> , 12, 846-856	6.1	130
522	Deep convolutional neural networks for detection of rail surface defects <b>2016</b> ,		128

521	Passenger-demands-oriented train scheduling for an urban rail transit network. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2015</b> , 60, 1-23	8.4	126
520	A comparative analysis of distributed MPC techniques applied to the HD-MPC four-tank benchmark. <i>Journal of Process Control</i> , <b>2011</b> , 21, 800-815	3.9	125
519	Traffic control and intelligent vehicle highway systems: a survey. <i>IET Intelligent Transport Systems</i> , <b>2011</b> , 5, 38-52	2.4	120
518	Optimal trajectory planning for trains $\square$ pseudospectral method and a mixed integer linear programming approach. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2013</b> , 29, 97-114	8.4	119
517	Efficient network-wide model-based predictive control for urban traffic networks. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2012</b> , 24, 122-140	8.4	118
516	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
515	Adaptive Cruise Control for a SMART Car: A Comparison Benchmark for MPC-PWA Control Methods. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 365-372	4.8	94
514	Integrated macroscopic traffic flow, emission, and fuel consumption model for control purposes. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2013</b> , 31, 158-171	8.4	89
513	Minimal state-space realization in linear system theory: an overview. <i>Journal of Computational and Applied Mathematics</i> , <b>2000</b> , 121, 331-354	2.4	86
512	Optimal Traffic Light Control for a Single Intersection. <i>European Journal of Control</i> , <b>1998</b> , 4, 260-276	2.5	83
511	Optimal Hybrid Perimeter and Switching Plans Control for Urban Traffic Networks. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 464-478	4.8	77
510	Kalman Filter-Based Distributed Predictive Control of Large-Scale Multi-Rate Systems: Application to Power Networks. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 27-39	4.8	76
509	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
508	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
507	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
506	Adaptive observers for TS fuzzy systems with unknown polynomial inputs. <i>Fuzzy Sets and Systems</i> , <b>2010</b> , 161, 2043-2065	3.7	69
505	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
504	A Predictive Traffic Controller for Sustainable Mobility Using Parameterized Control Policies. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2012</b> , 13, 1420-1429	6.1	62

503	Efficient Bilevel Approach for Urban Rail Transit Operation With Stop-Skipping. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2014</b> , 15, 2658-2670	6.1	61
502	Intermodal freight transport planning via receding horizon control approach. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2015</b> , 60, 77-95	8.4	60
501	An ellipsoid algorithm for probabilistic robust controller design. <i>Systems and Control Letters</i> , <b>2003</b> , 49, 365-375	2.4	59
500	Traffic Management for Automated Highway Systems Using Model-Based Predictive Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2012</b> , 13, 838-847	6.1	58
499	A Big Data Analysis Approach for Rail Failure Risk Assessment. <i>Risk Analysis</i> , <b>2017</b> , 37, 1495-1507	3.9	57
498	The extended linear complementarity problem. <i>Mathematical Programming</i> , <b>1995</b> , 71, 289-325	2.1	56
497	On hybrid systems and closed-loop MPC systems. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 863-869	3.9	54
496	Modelling and control of discrete event systems using switching max-plus-linear systems. <i>Control Engineering Practice</i> , <b>2006</b> , 14, 1199-1211	3.9	53
495	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
494	Towards automation of control software: A review of challenges in mechatronic design. <i>Mechatronics</i> , <b>2010</b> , 20, 876-886	3	50
493	Stability Analysis and Nonlinear Observer Design Using Takagi-Sugeno Fuzzy Models. <i>Studies in Fuzziness and Soft Computing</i> , <b>2011</b> ,	0.7	49
492	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
491	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
490	Cross-entropy optimization of control policies with adaptive basis functions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2011</b> , 41, 196-209		44
489	A comparison of filter configurations for freeway traffic state estimation <b>2006</b> ,		44
488	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
487	Optimal Coordination of a Multiple HVDC Link System Using Centralized and Distributed Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 302-314	4.8	42
486	Model-based predictive control applied to multi-carrier energy systems <b>2009</b> ,		42

485	MPC for continuous piecewise-affine systems. <i>Systems and Control Letters</i> , <b>2004</b> , 52, 179-192	2.4	42
484	Approximate dynamic programming with a fuzzy parameterization. <i>Automatica</i> , <b>2010</b> , 46, 804-814	5.7	41
483	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
482	Multi-Agent Reinforcement Learning: A Survey <b>2006</b> ,		38
481	Optimal Control of a Class of Linear Hybrid Systems with Saturation. <i>SIAM Journal on Control and Optimization</i> , <b>2000</b> , 39, 835-851	1.9	38
480	Considerations for model-based traffic control. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2013</b> , 35, 1-19	8.4	37
479	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
478	Optimal trajectory planning for trains under fixed and moving signaling systems using mixed integer linear programming. <i>Control Engineering Practice</i> , <b>2014</b> , 22, 44-56	3.9	36
477	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
476	A survey on optimal trajectory planning for train operations <b>2011</b> ,		36
475	Stability of Cascaded Fuzzy Systems and Observers. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2009</b> , 17, 641-653	3	36
474	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
473	Hybrid model predictive control for freeway traffic using discrete speed limit signals. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2014</b> , 46, 309-325	8.4	34
472	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
471	Minimal realization in the max algebra is an extended linear complementarity problem. <i>Systems and Control Letters</i> , <b>1995</b> , 25, 103-111	2.4	33
470	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
469	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
468	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

467	Observers for linear distributed-parameter systems: A survey <b>2011</b> ,		32
466	Model-based predictive traffic control for intelligent vehicles: Dynamic speed limits and dynamic lane allocation <b>2008</b> ,		32
465	Stabilization of switched affine systems: An application to the buck-boost converter. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	32
464	Stability analysis and controller synthesis for hybrid dynamical systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 4937-60	3	31
463	Coordination in urban water supply networks using distributed model predictive control <b>2010</b> ,		31
462	Optimizing acyclic traffic signal switching sequences through an Extended Linear Complementarity Problem formulation. <i>European Journal of Operational Research</i> , <b>2002</b> , 139, 400-415	5.6	31
461	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
460	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
459	Integrated Urban Traffic Control for the Reduction of Travel Delays and Emissions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2013</b> , 14, 1609-1619	6.1	30
458	Optimal Steady-State Control for Isolated Traffic Intersections. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 2612-2617	5.9	30
457	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
456	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
455	Toward System-Optimal Routing in Traffic Networks: A Reverse Stackelberg Game Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2015</b> , 16, 29-40	6.1	29
454	A macroscopic traffic flow model for integrated control of freeway and urban traffic networks		29
453	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
452	Integrated Model Predictive Traffic and Emission Control Using a Piecewise-Affine Approach. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2013</b> , 14, 587-598	6.1	28
451	Distributed tree-based model predictive control on a drainage water system. <i>Journal of Hydroinformatics</i> , <b>2013</b> , 15, 335-347	2.6	28
450	Optimal coordination of ramp metering and variable speed control-an MPC approach <b>2002</b> ,		28

449	Model Predictive Control Approach for Recovery from Delays in Railway Systems. <i>Transportation Research Record</i> , <b>2002</b> , 1793, 15-20	1.7	28
448	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
447	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
446	Ant Colony Routing algorithm for freeway networks. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2013</b> , 37, 1-19	8.4	27
445	Optimal dynamic route guidance: A model predictive approach using the macroscopic fundamental diagram <b>2013</b> ,		27
444	An iterative scheme for distributed model predictive control using Fenchel's duality. <i>Journal of Process Control</i> , <b>2011</b> , 21, 746-755	3.9	27
443	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
442	Development of a driver information and warning system with vehicle hardware-in-the-loop simulations. <i>Mechatronics</i> , <b>2009</b> , 19, 1091-1104	3	25
441	On the ultimate behavior of the sequence of consecutive powers of a matrix in the max-plus algebra. <i>Linear Algebra and Its Applications</i> , <b>2000</b> , 307, 103-117	0.9	25
440	A method to find all solutions of a system of multivariate polynomial equalities and inequalities in the max algebra. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>1996</b> , 6, 115-138	1	25
439	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
438	Stabilization and robust $H_2$ control for sector-bounded switched nonlinear systems. <i>Automatica</i> , <b>2014</b> , 50, 2726-2731	5.7	24
437	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
436	Multiobjective model predictive control for dynamic pickup and delivery problems. <i>Control Engineering Practice</i> , <b>2014</b> , 32, 73-86	3.9	22
435	A comparison of distributed MPC schemes on a hydro-power plant benchmark. <i>Optimal Control Applications and Methods</i> , <b>2015</b> , 36, 306-332	1.7	22
434	Distributed Predictive Control for Energy Hub Coordination in Coupled Electricity and Gas Networks <b>2010</b> , 235-273		22
433	Reduction of travel times and traffic emissions using model predictive control <b>2009</b> ,		22
432	Supervisory nonlinear MPC for emergency voltage control using pattern search. <i>Control Engineering Practice</i> , <b>2009</b> , 17, 841-848	3.9	22

431	Optimal trajectory planning for trains using mixed integer linear programming <b>2011</b> ,		22
430	Model predictive control for perturbed max-plus-linear systems: a stochastic approach. <i>International Journal of Control</i> , <b>2004</b> , 77, 302-309	1.5	22
429	Model predictive control for perturbed max-plus-linear systems. <i>Systems and Control Letters</i> , <b>2002</b> , 45, 21-33	2.4	22
428	Human-in-the-Loop Model Predictive Control of an Irrigation Canal [Applications of Control]. <i>IEEE Control Systems</i> , <b>2015</b> , 35, 19-29	2.9	21
427	Distributed MPC for frequency regulation in multi-terminal HVDC grids. <i>Control Engineering Practice</i> , <b>2016</b> , 46, 176-187	3.9	21
426	Online least-squares policy iteration for reinforcement learning control <b>2010</b> ,		21
425	Robust control of constrained max-plus-linear systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2009</b> , 19, 218-242	3.6	21
424	Model predictive control for residential energy resources using a mixed-logical dynamic model <b>2009</b> ,		21
423	On the equivalence of linear complementarity problems. <i>Operations Research Letters</i> , <b>2002</b> , 30, 211-222	1	21
422	Properties of MPC for Max-Plus-Linear Systems. <i>European Journal of Control</i> , <b>2002</b> , 8, 453-462	2.5	21
421	Optimal routing for automated highway systems. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2013</b> , 30, 1-22	8.4	20
420	Modeling and control of switching max-plus-linear systems with random and deterministic switching. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2012</b> , 22, 293-332	1	20
419	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
418	Computational techniques for reachability analysis of Max-Plus-Linear systems. <i>Automatica</i> , <b>2015</b> , 53, 293-302	5.7	19
417	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
416	Facilitating maintenance decisions on the Dutch railways using big data: The ABA case study <b>2014</b> ,		19
415	Weight optimisation for iterative distributed model predictive control applied to power networks. <i>Engineering Applications of Artificial Intelligence</i> , <b>2013</b> , 26, 532-543	7.2	19
414	Optimal traffic light control for a single intersection <b>1999</b> ,		19



413	MPC-based optimal coordination of variable speed limits to suppress shock waves in freeway traffic		19
412	Approximate reinforcement learning: An overview <b>2011</b> ,		18
411	Distributed Kalman filtering for cascaded systems. <i>Engineering Applications of Artificial Intelligence</i> , <b>2008</b> , 21, 457-469	7.2	18
410	Multi-Agent Model Predictive Control of Transportation Networks		18
409	The Extended Linear Complementarity Problem and the Modeling and Analysis of Hybrid Systems. <i>Lecture Notes in Computer Science</i> , <b>1999</b> , 70-85	0.9	18
408	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
407	. <i>IEEE Transactions on Robotics</i> , <b>2014</b> , 30, 652-665	6.5	17
406	Finite Abstractions of Max-Plus-Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 3039-3053	3.5	17
405	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> , <b>2010</b> , 40, 341-351		17
404	Ant Colony Optimization for traffic dispersion routing <b>2010</b> ,		17
403	Hierarchical Traffic Control and Management with Intelligent Vehicles. <i>Intelligent Vehicles Symposium, 2009 IEEE</i> , <b>2007</b> ,		17
402	Optimal Coordination of Variable Speed Limits to Suppress Shock Waves. <i>Transportation Research Record</i> , <b>2003</b> , 1852, 167-174	1.7	17
401	MPC for discrete-event systems with soft and hard synchronization constraints. <i>International Journal of Control</i> , <b>2003</b> , 76, 82-94	1.5	17
400	Shock wave elimination/reduction by optimal coordination of variable speed limits		17
399	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
398	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
397	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
396	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

395	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
394	A distributed optimization-based approach for hierarchical MPC of large-scale systems with coupled dynamics and constraints <b>2011</b> ,		16
393	Least-cost model predictive control of residential energy resources when applying CHP <b>2007</b> ,		16
392	Model predictive control with repeated model fitting for ramp metering		16
391	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
390	On Systematic Computation of Optimal Nonlinear Solutions for the Reverse Stackelberg Game. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2014</b> , 44, 1315-1327	7.3	15
389	Max-plus algebra and max-plus linear discrete event systems: An introduction <b>2008</b> ,		15
388	Decentralized Reinforcement Learning Control of a Robotic Manipulator <b>2006</b> ,		15
387	Supervisory hybrid model predictive control for voltage stability of power networks. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	15
386	Predictive Control for National Water Flow Optimization in The Netherlands <b>2010</b> , 439-461		15
385	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
384	Real-time scheduling for single lines in urban rail transit systems <b>2013</b> ,		14
383	Time-Varying Scheme for Noncentralized Model Predictive Control of Large-Scale Systems. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-17	1.1	14
382	Delivery-Oriented Hierarchical Predictive Control of an Irrigation Canal: Event-Driven Versus Time-Driven Approaches. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 1701-1716	4.8	14
381	Model predictive control of fuel cell micro cogeneration systems <b>2009</b> ,		14
380	A hybrid steepest descent method for constrained convex optimization. <i>Automatica</i> , <b>2009</b> , 45, 525-531	5.7	14
379	Stabilization of max-plus-linear systems using model predictive control: The unconstrained case. <i>Automatica</i> , <b>2008</b> , 44, 971-981	5.7	14
378	A hybrid MPC approach to the design of a Smart adaptive cruise controller <b>2006</b> ,		14

377	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
376	Sequential stability analysis and observer design for distributed TS fuzzy systems. <i>Fuzzy Sets and Systems</i> , <b>2011</b> , 174, 1-30	3.7	13
375	Stable Model Predictive Control for Constrained Max-Plus-Linear Systems. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , <b>2007</b> , 17, 329-354	1	13
374	Input signal design for identification of max-plus-linear systems. <i>Automatica</i> , <b>2006</b> , 42, 937-943	5.7	13
373	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
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356	Dynamic Speed Limits and On-Ramp Metering for IVHS using Model Predictive Control <b>2008</b> ,		11
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278	Toward a flexible control design framework to automatically generate control code for mechatronic systems <b>2009</b> ,		6
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273	Robust hybrid MPC applied to the design of an adaptive cruise controller for a road vehicle <b>2006</b> ,		6
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271	A Web-based study support environment for systems and control courses <b>2001</b> ,		6
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248	Hierarchical model-based predictive control for Intelligent Vehicle Highway Systems: Regional controllers <b>2010</b> ,		5
247	Optimistic planning for sparsely stochastic systems <b>2011</b> ,		5
246	Micro-ferry scheduling problem with time windows <b>2012</b> ,		5
245	Policy search with cross-entropy optimization of basis functions <b>2009</b> ,		5
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236	Efficient implementation of serial multi-agent model predictive control by parallelization <b>2007</b> ,		5
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231	Robustly stabilizing MPC for perturbed PWL systems		5
230			5
229	Probabilistic Approach for Validation of Advanced Driver Assistance Systems		5
228	Model Predictive Control for rail condition-based maintenance: A multilevel approach <b>2016</b> ,		5
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217	Identification of distributed-parameter systems with missing data <b>2012</b> ,		4
216	Reverse Stackelberg games, part II: Results and open issues <b>2012</b> ,		4

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184	Power scheduling in islanded-mode microgrids using fuel cell vehicles <b>2017</b> ,		3
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182	Efficient Model Predictive Control for Variable Speed Limits by Optimizing Parameterized Control Schemes <b>2015</b> ,		3
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178	A modeling framework for model predictive scheduling using switching max-plus linear models <b>2013</b> ,	3
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