Ton J J Van Den Boom

List of Publications by Year
in descending order

33 papers	557 citations	933447 10 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	238 citing authors

#	Article	IF	Citations
1	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
2	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
3	Optimistic optimization for continuous nonconvex piecewise affine functions. Automatica, 2021, 125, 109476.	5.0	0
4	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
5	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
6	Structural Controllability of Switching Max-Plus Linear Systems. IFAC-PapersOnLine, 2020, 53, 1936-1942.	0.9	0
7	Model Predictive Control for Stochastic Max-Plus Linear Systems With Chance Constraints. IEEE Transactions on Automatic Control, 2019, 64, 337-342.	5.7	17
8	Distributed optimization for real-time railway traffic management. IFAC-PapersOnLine, 2018, 51, 106-111.	0.9	7
9	On optimization of stochastic max–min-plus-scaling systems—An approximation approach. Automatica, 2017, 83, 20-27.	5.0	9
10	Receding-horizon control for max-plus linear systems with discrete actions using optimistic planning. , 2016, , .		1
11	Distributed model predictive control for railway traffic management. Transportation Research Part C: Emerging Technologies, 2016, 68, 462-489.	7.6	42
12	Optimistic optimization for model predictive control of max-plus linear systems. Automatica, 2016, 74, 16-22.	5.0	13
13	Towards railway traffic management using switching Max-plus-linear systems. Discrete Event Dynamic Systems: Theory and Applications, 2016, 26, 183-223.	1.5	31
14	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
15	An approximation method for computing the expected value of max-affine expressions. European Journal of Control, 2016, 27, 17-27.	2.6	9
16	Exact and approximate approaches to the identification of stochastic max-plus-linear systems. Discrete Event Dynamic Systems: Theory and Applications, 2014, 24, 447-471.	1.5	5
17	Distributed model predictive control for rescheduling of railway traffic. , 2014, , .		3
18	Model Predictive Control of Manufacturing Systems with Max-Plus Algebra. Industrial Information Technology Series, 2014, , 343-378.	0.2	2

#	Article	IF	Citations
19	Reducing the time needed to solve the global rescheduling problem for railway networks. , 2013, , .		6
20	Performance analysis of MILP based model predictive control algorithms for dynamic railway scheduling. , 2013, , .		3
21	Model Predictive Control for Stochastic Switching Max-Plus-Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 79-84.	0.4	2
22	Model predictive control for stochastic max-min-plus-scaling systems - an approximation approach. , 2011, , .		2
23	A stabilizing model predictive controller for uncertain max-plus-linear systems and uncertain switching max-plus-linear systemsâ€¹†. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8663-8668.	0.4	5
24	An Approximation Approach for Model Predictive Control of Stochastic Max-Plus Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 376-381.	0.4	10
25	Model predictive control for randomly switching max-plus-linear systems using a scenario-based algorithm. , 2010, , .		2
26	Max-plus algebra and max-plus linear discrete event systems: An introduction. , 2008, , .		23
27	Input signal design for identification of max-plus-linear systems. Automatica, 2006, 42, 937-943.	5.0	18
28	Robust control of dynamical systems using neural networks with inputâ€"output feedback linearization. International Journal of Control, 2003, 76, 1783-1789.	1.9	6
29	Optimal input signal design for identification of max-plus-linear systems. , 2003, , .		3
30	Properties of MPC for Max-Plus-Linear Systems. European Journal of Control, 2002, 8, 453-462.	2.6	29
31	Model Predictive Control for Discrete-Event Systems with Soft and Hard Synchonization Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 831-836.	0.4	2
32	Model predictive control for max-plus-linear discrete event systems. Automatica, 2001, 37, 1049-1056.	5.0	244
33	Robust stability of feedback linearised systems modelled with neural networks: dealing with uncertainty. Engineering Applications of Artificial Intelligence, 2000, 13, 659-670.	8.1	16