

Teodoro Alamo

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.

205
papers

4,130
citations

35
h-index

58
g-index

229
ext. papers

5,125
ext. citations

3.5
avg, IF

5.53
L-index

#	Paper	IF	Citations
205	Restart of accelerated first order methods with linear convergence under a quadratic functional growth condition. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	0
204	State-Space Kriging: A Data-Driven Method to Forecast Nonlinear Dynamical Systems 2022 , 6, 2258-2263		0
203	Tractable robust MPC design based on nominal predictions. <i>Journal of Process Control</i> , 2022 , 111, 75-85	3.9	
202	Chance-constrained sets approximation: A probabilistic scaling approach. <i>Automatica</i> , 2022 , 137, 110108	5.7	0
201	Challenges and Future Directions in Pandemic Control 2022 , 6, 722-727		5
200	Prediction Error Quantification Through Probabilistic Scaling 2022 , 6, 1118-1123		2
199	Real-time implementation of MPC for tracking in embedded systems: Application to a two-wheeled inverted pendulum 2021 ,		1
198	Probabilistic interval predictor based on dissimilarity functions. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	1
197	Implementation of Model Predictive Control for Tracking in Embedded Systems Using a Sparse Extended ADMM Algorithm. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 1-8	4.8	0
196	Implementation of Model Predictive Control in Programmable Logic Controllers. <i>IEEE Transactions on Control Systems Technology</i> , 2021 , 29, 1117-1130	4.8	8
195	Data-driven methods for present and future pandemics: Monitoring, modelling and managing. <i>Annual Reviews in Control</i> , 2021 , 52, 448-464	10.3	6
194	Receding Horizon Optimization of Large Trade Orders. <i>IEEE Access</i> , 2021 , 9, 63865-63875	3.5	0
193	Probabilistic reachable and invariant sets for linear systems with correlated disturbance. <i>Automatica</i> , 2021 , 132, 109808	5.7	0
192	Probabilistically Certified Management of Data Centers Using Predictive Control. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021 , 1-13	4.9	1
191	Stock Forecasting Using Local Data. <i>IEEE Access</i> , 2021 , 9, 9334-9344	3.5	6
190	Covid-19: Open-Data Resources for Monitoring, Modeling, and Forecasting the Epidemic. <i>Electronics (Switzerland)</i> , 2020 , 9, 827	2.6	39
189	Harmonic based model predictive control for set-point tracking. <i>IEEE Transactions on Automatic Control</i> , 2020 , 1-1	5.9	1

188	A probabilistic validation approach for penalty function design in Stochastic Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2020 , 53, 11271-11276	0.7	2
187	Predictive control of a water distribution system based on process historian data. <i>Optimal Control Applications and Methods</i> , 2020 , 41, 571-586	1.7	4
186	Computationally efficient stochastic MPC: a probabilistic scaling approach 2020 ,		3
185	Guaranteed set-membership state estimation of an octorotor's position for radar applications. <i>International Journal of Control</i> , 2020 , 93, 2760-2770	1.5	6
184	Restart FISTA with Global Linear Convergence 2019 ,		4
183	Gradient Based Restart FISTA 2019 ,		3
182	Single harmonic based Model Predictive Control for tracking 2019 ,		1
181	Offset free data driven control: application to a process control trainer. <i>IET Control Theory and Applications</i> , 2019 , 13, 3096-3106	2.5	7
180	Data Driven Control: An Offset Free Approach 2019 ,		5
179	Safe approximations of chance constrained sets by probabilistic scaling 2019 ,		5
178	Ellipsoidal set-membership state estimation for descriptor systems 2019 ,		4
177	Nonlinear MPC for Tracking Piece-Wise Constant Reference Signals. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 3735-3750	5.9	52
176	Model predictive control of partially fading memory systems with binary inputs. <i>Journal of Process Control</i> , 2018 , 64, 141-151	3.9	1
175	A Distributed Set-membership Approach based on Zonotopes for Interconnected Systems 2018 ,		5
174	Zonotopic Constrained Kalman Filter Based on a Dual Formulation 2018 ,		3
173	Data-based predictive control via direct weight optimization. <i>IFAC-PapersOnLine</i> , 2018 , 51, 356-361	0.7	18
172	Robust Design Through Probabilistic Maximization. <i>Systems and Control: Foundations and Applications</i> , 2018 , 247-274	0.3	4
171	Implementation of Model Predictive Controllers in Programmable Logic Controllers using IEC 61131-3 standard 2018 ,		7

170	Economic Model Predictive Control with Nonlinear Constraint Relaxation for the Operational Management of Water Distribution Networks. <i>Energies</i> , 2018 , 11, 991	3.1	8
169	Networked control design for coalitional schemes using game-theoretic methods. <i>Automatica</i> , 2017 , 78, 320-332	5.7	35
168	Robust Model Predictive Controller for Tracking Changing Periodic Signals. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5343-5350	5.9	7
167	A General Framework for Predictors Based on Bounding Techniques and Local Approximation. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3430-3435	5.9	23
166	Predictive Control with On-Off actuators of Partially Fading Memory Systems. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7187-7192	0.7	
165	Distributed Zonotopic Set-Membership State Estimation based on Optimization Methods with Partial Projection. <i>IFAC-PapersOnLine</i> , 2017 , 50, 4039-4044	0.7	4
164	Application to a drinking water network of robust periodic MPC. <i>Control Engineering Practice</i> , 2016 , 57, 50-60	3.9	8
163	Periodic economic model predictive control with nonlinear-constraint relaxation for water distribution networks 2016 ,		2
162	MPC for Tracking Periodic References. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1123-1128	5.9	34
161	Slide Window Bounded-Error Time-Varying Systems Identification. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 2282-2287	5.9	14
160	Fault tolerant control approach based on multiple models and set-membership state estimation 2016 ,		1
159	Application to a large-scale drinking water network of robust MPC for tracking periodic references 2016 ,		1
158	Guaranteed state estimation and fault detection based on zonotopes for differential-algebraic-equation systems 2016 ,		5
157	Robust model predictive controller for tracking periodic signals 2016 ,		2
156	Randomized methods for design of uncertain systems: Sample complexity and sequential algorithms. <i>Automatica</i> , 2015 , 52, 160-172	5.7	88
155	Combined Stochastic and Deterministic Interval Predictor. <i>IFAC-PapersOnLine</i> , 2015 , 48, 320-325	0.7	
154	A convex approach for NMPC based on second order Volterra series models. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 3546-3571	3.6	4
153	Periodic Economic Control of a Nonisolated Microgrid. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5247-5255	8.9	48

152	MPC implementation in a PLC based on Nesterov's fast gradient method 2015 ,		1
151	An algorithm with low computational requirements to constrain the Shapley value in coalitional networks 2015 ,		3
150	Application of Periodic Economic MPC to a Grid-Connected Micro-Grid. <i>IFAC-PapersOnLine</i> , 2015 , 48, 513-518	0.7	3
149	A gradient-based strategy for the one-layer RTO+MPC controller. <i>Journal of Process Control</i> , 2014 , 24, 435-447	3.9	20
148	Single-layer economic model predictive control for periodic operation. <i>Journal of Process Control</i> , 2014 , 24, 1207-1224	3.9	56
147	A New Approach for Guaranteed Ellipsoidal State Estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6533-6538		13
146	An Iterative Design Method for Coalitional Control Networks with Constraints on the Shapley Value. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1188-1193		14
145	Sensor fault detection and diagnosis using zonotopic set-membership estimation 2014 ,		4
144	Ellipsoidal state estimation for systems with interval uncertainties 2014 ,		5
143	Constraints on the shapley value for a coalitional control system 2014 ,		11
142	2014 ,		24
141	Zonotopic guaranteed state estimation for uncertain systems. <i>Automatica</i> , 2013 , 49, 3418-3424	5.7	102
140	Zonotope-based set-membership estimation for Multi-Output uncertain systems 2013 ,		14
139	2013 ,		4
138	Computationally efficient nonlinear MinMax Model Predictive Control based on Volterra series models Application to a pilot plant. <i>Journal of Process Control</i> , 2013 , 23, 543-560	3.9	25
137	Un algoritmo secuencial, aleatorio y ptimo para problemas de factibilidad robusta. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2013 , 10, 50-61	1.5	
136	Economic model predictive control of a smartgrid with hydrogen storage and PEM fuel cell 2013 ,		9
135	2013 ,		35

134	On the explicit dead-time compensation for robust model predictive control. <i>Journal of Process Control</i> , 2012 , 22, 236-246	3.9	21
133	Invariant sets computation for convex difference inclusions systems. <i>Systems and Control Letters</i> , 2012 , 61, 819-826	2.4	13
132	Design and Application of Suboptimal Mixed H_2/H_∞ Controllers for Networked Control Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1057-1065	4.8	18
131	Robust semidefinite programming problems with general nonlinear parameter dependence: Approaches using the DC-representations. <i>Automatica</i> , 2012 , 48, 2937-2944	5.7	
130	Randomized control design through probabilistic validation 2012 ,		7
129	A probabilistic approach for testing feedback controllers with application to congestion control. <i>International Journal of Control, Automation and Systems</i> , 2012 , 10, 835-840	2.9	
128	Stockout risk analysis and minimization applied to hospital pharmacy management. <i>Farmacia Hospitalaria</i> , 2012 , 36, 130-4	0.9	2
127	Zonotopic set-membership estimation for interval dynamic systems 2012 ,		8
126	A Polynomial Matrix Inequality approach for zonotopic set-membership estimation of multivariable systems 2012 ,		1
125	A gradient-based strategy for integrating Real Time Optimizer (RTO) with Model Predictive Control (MPC). <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 33-38		3
124	Model Predictive Control for changing economic targets. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 384-391		2
123	MPC for tracking periodic reference signals. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 490-495		13
122	Online robust tube-based MPC for time-varying systems: a practical approach. <i>International Journal of Control</i> , 2011 , 84, 1157-1170	1.5	48
121	Robust tube-based constrained predictive control via zonotopic set-membership estimation 2011 ,		8
120	Robust Semidefinite Programming Problems with General Nonlinear Parameter Dependence: Application of the DC-Representations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 7939-7944		
119	A New Approach for Guaranteed State Estimation by Zonotopes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 9242-9247		6
118	Computational burden reduction in minmax MPC. <i>Journal of the Franklin Institute</i> , 2011 , 348, 2430-2447	4	7
117	Robust tube-based predictive control for mobile robots in off-road conditions. <i>Robotics and Autonomous Systems</i> , 2011 , 59, 711-726	3.5	35

116	Ultimate bounded stability and stabilization of linear systems interconnected with generalized saturated functions. <i>Automatica</i> , 2011 , 47, 1473-1481	5.7	14
115	MinMax MPC based on an upper bound of the worst case cost with guaranteed stability. Application to a pilot plant. <i>Journal of Process Control</i> , 2011 , 21, 194-204	3.9	13
114	Distributed model predictive control based on agent negotiation. <i>Journal of Process Control</i> , 2011 , 21, 685-697	3.9	93
113	Optimal MPC for tracking of constrained linear systems. <i>International Journal of Systems Science</i> , 2011 , 42, 1265-1276	2.3	21
112	Enhanced ISS nominal MPC based on constraint tightening for constrained linear systems 2010 ,		9
111	Robust tube based model predictive control for constrained systems with dead-time 2010 ,		1
110	Adaptive Control for a Mobile Robot Under Slip Conditions Using an LMI-Based Approach. <i>European Journal of Control</i> , 2010 , 16, 144-155	2.5	33
109	Fault-tolerant model predictive control 2010 ,		16
108	On the sample complexity of randomized approaches to the analysis and design under uncertainty 2010 ,		31
107	Enhanced robust NMPC based on nominal predictions *. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 220-225		2
106	Randomized Algorithms and their application to renewable energy systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 163-168		
105	Model predictive control techniques for hybrid systems. <i>Annual Reviews in Control</i> , 2010 , 34, 21-31	10.3	85
104	On the computation of convex robust control invariant sets for nonlinear systems. <i>Automatica</i> , 2010 , 46, 1334-1338	5.7	36
103	Robust tube-based MPC for tracking of constrained linear systems with additive disturbances. <i>Journal of Process Control</i> , 2010 , 20, 248-260	3.9	150
102	On the Sample Complexity of Probabilistic Analysis and Design Methods. <i>Lecture Notes in Control and Information Sciences</i> , 2010 , 39-50	0.5	17
101	MPC for tracking of constrained nonlinear systems 2009 ,		30
100	Robust fault detection using zonotope-based set-membership consistency test. <i>International Journal of Adaptive Control and Signal Processing</i> , 2009 , 23, 311-330	2.8	71
99	Control of a pilot plant using QP based minmax predictive control. <i>Control Engineering Practice</i> , 2009 , 17, 1358-1366	3.9	12

98	A robust constrained reference governor approach using linear matrix inequalities. <i>Journal of Process Control</i> , 2009 , 19, 773-784	3.9	10
97	Convex invariant sets for discrete-time Lurĳ systems. <i>Automatica</i> , 2009 , 45, 1066-1071	5.7	23
96	MPC for tracking with optimal closed-loop performance. <i>Automatica</i> , 2009 , 45, 1975-1978	5.7	88
95	Randomized Strategies for Probabilistic Solutions of Uncertain Feasibility and Optimization Problems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 2545-2559	5.9	110
94	Robust tube-based MPC for constrained mobile robots under slip conditions 2009 ,		11
93	Input-to-State Stability: A Unifying Framework for Robust Model Predictive Control. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 1-26	0.5	63
92	Control of Constrained Discrete-Time Systems With Bounded ℓ_2 Gain. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1105-1111	5.9	18
91	Model Predictive Control techniques for Hybrid Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1-13		2
90	Further Results on Robust MPC Using Linear Matrix Inequalities <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 89-98	0.5	2
89	MPC for Tracking of Constrained Nonlinear Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 315-323	0.5	2
88	Robust tubed-based MPC for tracking applied to the quadruple-tank process 2008 ,		2
87	Control Predictivo Mĳ-Mĳ de una planta piloto. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2008 , 5, 37-47	1.5	4
86	Dynamic Output Feedback for Discrete-Time Systems Under Amplitude and Rate Actuator Constraints. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2367-2372	5.9	35
85	Min-Max Model Predictive Control of a pilot plant 2008 ,		3
84	An Efficient Maximization Algorithm With Implications in Min-Max Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 2192-2197	5.9	6
83	MPC for tracking with optimal closed-loop performance 2008 ,		4
82	Design of ISS-Lyapunov Functions for Discrete-Time Linear Uncertain Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 1135-1140		2
81	On the design of Robust tube-based MPC for tracking. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 15333-15338		16

80	Robust control of the distributed solar collector field ACUREX using MPC for tracking.. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 958-963		10
79	Safety verification and adaptive model predictive control of the hybrid dynamics of a fuel cell system. <i>International Journal of Adaptive Control and Signal Processing</i> , 2008 , 22, 142-160	2.8	12
78	MPC for tracking piecewise constant references for constrained linear systems. <i>Automatica</i> , 2008 , 44, 2382-2387	5.7	281
77	On input-to-state stability of minmax nonlinear model predictive control. <i>Systems and Control Letters</i> , 2008 , 57, 39-48	2.4	107
76	MinMax MPC based on a network problem. <i>Systems and Control Letters</i> , 2008 , 57, 184-192	2.4	7
75	A new vertex result for robustness problems with interval matrix uncertainty. <i>Systems and Control Letters</i> , 2008 , 57, 474-481	2.4	41
74	A set-membership state estimation algorithm based on DC programming. <i>Automatica</i> , 2008 , 44, 216-224	5.7	52
73	An algorithm for bounded-error identification of nonlinear systems based on DC functions. <i>Automatica</i> , 2008 , 44, 437-444	5.7	10
72	Statistical Learning Theory: A Pack-based Strategy for Uncertain Feasibility and Optimization Problems. <i>Lecture Notes in Control and Information Sciences</i> , 2008 , 1-14	0.5	2
71	Discussion on: MPC Robust Design Using Linear and/or Bilinear Matrix Inequalities <i>European Journal of Control</i> , 2007 , 13, 470-472	2.5	
70	2007 ,		15
69	Robust GPC-QFT approach using Linear Matrix Inequalities 2007 ,		1
68	Minmax MPC using a tractable QP problem. <i>Automatica</i> , 2007 , 43, 693-700	5.7	17
67	Revisiting statistical learning theory for uncertain feasibility and optimization problems 2007 ,		5
66	A convex approximation of the feasible solution set for nonlinear bounded-error identification problems 2007 ,		1
65	Improved sample size bounds for probabilistic robust control design: A pack-based strategy 2007 ,		10
64	New Methods for Computing the Terminal Cost for Min-max Model Predictive Control. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	1
63	On the computation of local invariant sets for nonlinear systems 2007 ,		6

62	2007,		14
61	MinMax model predictive control as a quadratic program. <i>IET Control Theory and Applications</i> , 2007 , 1, 328-333	2.5	13
60	Towards the practical implementation of min-max nonlinear Model Predictive Control 2007,		7
59	Adaptive Model Predictive Control of the Hybrid Dynamics of a Fuel Cell System. <i>Control Applications (CCA), Proceedings of the IEEE International Conference on</i> , 2007,		1
58	A sequentially optimal randomized algorithm for robust LMI feasibility problems 2007,		10
57	Robust Fault Detection Based on Zonotope-Based Set-Membership Parameter Consistency Test 2007, 1056-1061		
56	On the Computation of Robust Control Invariant Sets for Piecewise Affine Systems 2007, 131-139		4
55	Interval Arithmetic in Robust Nonlinear MPC 2007, 317-326		4
54	Estimation of the domain of attraction for saturated discrete-time systems. <i>International Journal of Systems Science</i> , 2006 , 37, 575-583	2.3	28
53	Predictive control of a Linear Motor for tracking of constant references 2006,		4
52	Bounded error identification of systems with time-varying parameters. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1144-1150	5.9	69
51	Feedback min-max model predictive control based on a quadratic cost function 2006,		7
50	A Decomposition Algorithm for Feedback MinMax Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 1688-1692	5.9	18
49	. <i>IEEE Transactions on Automatic Control</i> , 2006 , 51, 832-836	5.9	107
48	INTRODUCING LINEAR MATRIX INEQUALITIES IN A CONTROL COURSE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 205-210		9
47	A PREDICTION APPROACH TO INTRODUCE DEAD-TIME PROCESS CONTROL IN A BASIC CONTROL COURSE. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 211-216		
46	A JAVA BASED SIMULATOR FOR BASIC CONTROL EDUCATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 481-486		1
45	SMALL-SCALE DOMOTIC SYSTEM AS PROTOTYPE OF REMOTE CYBERNETIC APPLICATIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 499-504		

44	SYNTHESIS OF ROBUST SATURATED CONTROLLERS: AN SNS-APPROACH. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 477-482		2
43	ROBUST FAULT DETECTION BASED ON ZONOTOPE-BASED SET-MEMBERSHIP PARAMETER CONSISTENCY TEST. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1056-1061		0
42	AN EDUCATIONAL PLANT BASED ON THE QUADRUPLE-TANK PROCESS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 82-87		9
41	Input to state stability of minmax MPC controllers for nonlinear systems with bounded uncertainties. <i>Automatica</i> , 2006 , 42, 797-803	5.7	144
40	A new concept of invariance for saturated systems. <i>Automatica</i> , 2006 , 42, 1515-1521	5.7	36
39	Robust MPC of constrained discrete-time nonlinear systems based on approximated reachable sets. <i>Automatica</i> , 2006 , 42, 1745-1751	5.7	61
38	Min-Max MPC based on a computationally efficient upper bound of the worst case cost. <i>Journal of Process Control</i> , 2006 , 16, 511-519	3.9	29
37	Explicit solution of minmax MPC with additive uncertainties and quadratic criterion. <i>Systems and Control Letters</i> , 2006 , 55, 266-274	2.4	17
36	Improved MPC Design based on Saturating Control Laws*. <i>European Journal of Control</i> , 2005 , 11, 112-122.5		12
35	COMPUTATIONALLY EFFICIENT MIN-MAX MPC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 462-467		
34	MPC FOR TRACKING OF PIECE-WISE CONSTANT REFERENCES FOR CONSTRAINED LINEAR SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 135-140		4
33	Guaranteed state estimation by zonotopes. <i>Automatica</i> , 2005 , 41, 1035-1043	5.7	329
32	On the computation of invariant sets for constrained nonlinear systems: An interval arithmetic approach. <i>Automatica</i> , 2005 , 41, 1583-1589	5.7	47
31	Efficient implementation of constrained minmax model predictive control with bounded uncertainties: a vertex rejection approach. <i>Journal of Process Control</i> , 2005 , 15, 149-158	3.9	26
30	Enlarging the domain of attraction of MPC controllers. <i>Automatica</i> , 2005 , 41, 629-635	5.7	62
29	Robust MPC of constrained nonlinear systems based on interval arithmetic. <i>IET Control Theory and Applications</i> , 2005 , 152, 325-332		62
28	Application of an explicit min-max MPC to a scaled laboratory process. <i>Control Engineering Practice</i> , 2005 , 13, 1463-1471	3.9	19
27	Constrained min-max predictive control: modifications of the objective function leading to polynomial complexity. <i>IEEE Transactions on Automatic Control</i> , 2005 , 50, 710-714	5.9	37

26	A convex parameterization for solving constrained min-max problems with a quadratic cost 2004 ,	7
25	A dynamic programming approach for determining the explicit solution of linear MPC controllers 2004 ,	11
24	Bounded error identification of systems with time-varying parameters 2004 ,	2
23	Computation of polyhedral H-invariant sets for saturated systems 2004 ,	6
22	An efficient maximization algorithm with implications in min-max predictive control 2003 ,	2
21	Robust MPC of constrained discrete-time nonlinear systems based on zonotopes 2003 ,	2
20	Improved MPC design based on saturating control laws 2003 ,	2
19	ENLARGING THE DOMAIN OF ATTRACTION OF MPC CONTROLLER USING INVARIANT SETS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 47-52	2
18	Robust stability and structured uncertainty bounded by the Euclidean norm. <i>International Journal of Robust and Nonlinear Control</i> , 2001 , 11, 749-770	3.6 1
17	Determining limit cycles in fuzzy control systems	17
16	Stochastic Programming Applied to Model Predictive Control	35
15	Improved computation of ellipsoidal invariant sets for saturated control systems	53
14	Guaranteed state estimation by zonotopes	9
13	Constrained min-max predictive control: a polynomial-time approach	7
12	Min max MPC based on a graph problem	1
11	Robust MPC control based on a contractive sequence of sets	5
10	Stable constrained MPC without terminal constraint	9
9	Robust Fault Diagnosis using Parallelotope-based Set-membership Consistency Tests	11

8	Dynamic Output Feedback for Discrete-Time Systems under Amplitude and Rate Actuator Constraints	8
7	Min-Max MPC using a tractable QP Problem	2
6	A Decomposition Algorithm for Feedback Min-Max Model Predictive Control	3
5	Robust MPC of constrained discrete-time nonlinear systems based on uncertain evolution sets: application to a CSTR model	2
4	Efficient implementation of constrained min-max model predictive control with bounded uncertainties	4
3	Stability analysis of systems with bounded additive uncertainties based on invariant sets: Stability and feasibility of MPC	8
2	Input-to-state stable MPC for constrained discrete-time nonlinear systems with bounded additive uncertainties	8
1	Probabilistic performance validation of deep learning-based robust NMPC controllers. <i>International Journal of Robust and Nonlinear Control</i> ,	3.6 3