Teodoro Alamo

List of Publications by Year
in descending order

224 papers	6,064 citations	109321 35 h-index	95266 68 g-index
229 all docs	229 docs citations	229 times ranked	2602 citing authors

#	Article	IF	Citations
1	Restart of Accelerated First-Order Methods With Linear Convergence Under a Quadratic Functional Growth Condition. IEEE Transactions on Automatic Control, 2023, 68, 612-619.	5.7	0
2	Challenges and Future Directions in Pandemic Control. , 2022, 6, 722-727.		13
3	Prediction Error Quantification Through Probabilistic Scaling. , 2022, 6, 1118-1123.		6
4	Probabilistically Certified Management of Data Centers Using Predictive Control. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2849-2861.	5.2	2
5	Harmonic Based Model Predictive Control for Set-Point Tracking. IEEE Transactions on Automatic Control, 2022, 67, 48-62.	5.7	3
6	Implementation of Model Predictive Control for Tracking in Embedded Systems Using a Sparse Extended ADMM Algorithm. IEEE Transactions on Control Systems Technology, 2022, 30, 1798-1805.	5.2	3
7	Chance-constrained sets approximation: A probabilistic scaling approach. Automatica, 2022, 137, 110108.	5.0	4
8	State-Space Kriging: A Data-Driven Method to Forecast Nonlinear Dynamical Systems. , 2022, 6, 2258-2263.		6
9	Tractable robust MPC design based on nominal predictions. Journal of Process Control, 2022, 111, 75-85.	3.3	2
10	Receding Horizon Optimization of Large Trade Orders. IEEE Access, 2021, 9, 63865-63875.	4.2	2
11	Tracking Model Predictive Control. , 2021, , 2336-2345.		4
12	Implementation of Model Predictive Control in Programmable Logic Controllers. IEEE Transactions on Control Systems Technology, 2021, 29, 1117-1130.	5.2	14
13	Data-driven methods for present and future pandemics: Monitoring, modelling and managing. Annual Reviews in Control, 2021, 52, 448-464.	7.9	28
14	Probabilistic performance validation of deep learning€based robust NMPC controllers. International Journal of Robust and Nonlinear Control, 2021, 31, 8855-8876.	3.7	20
15	Probabilistic reachable and invariant sets for linear systems with correlated disturbance. Automatica, 2021, 132, 109808.	5.0	4
16	Stock Forecasting Using Local Data. IEEE Access, 2021, 9, 9334-9344.	4.2	11
17	Probabilistic interval predictor based on dissimilarity functions. IEEE Transactions on Automatic Control, 2021, , 1-1.	5.7	1
18	Real-time implementation of MPC for tracking in embedded systems: Application to a two-wheeled inverted pendulum. , 2021, , .		1

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19	Predictive control of a water distribution system based on process historian data. Optimal Control Applications and Methods, 2020, 41, 571-586.	2.1	8
20	Computationally efficient stochastic MPC: a probabilistic scaling approach. , 2020, , .		6
21	Guaranteed set-membership state estimation of an octorotor's position for radar applications. International Journal of Control, 2020, 93, 2760-2770.	1.9	8
22	Covid-19: Open-Data Resources for Monitoring, Modeling, and Forecasting the Epidemic. Electronics (Switzerland), 2020, 9, 827.	3.1	74
23	A probabilistic validation approach for penalty function design in Stochastic Model Predictive Control. IFAC-PapersOnLine, 2020, 53, 11271-11276.	0.9	3
24	Tracking Model Predictive Control. , 2020, , 1-10.		0
25	Restart FISTA with Global Linear Convergence. , 2019, , .		9
26	Gradient Based Restart FISTA. , 2019, , .		4
27	Single harmonic based Model Predictive Control for tracking. , 2019, , .		4
28	Offset free data driven control: application to a process control trainer. IET Control Theory and Applications, 2019, 13, 3096-3106.	2.1	11
29	Data Driven Control: An Offset Free Approach. , 2019, , .		6
30	Safe approximations of chance constrained sets by probabilistic scaling. , 2019, , .		5
31	Ellipsoidal set-membership state estimation for descriptor systems. , 2019, , .		6
32	Nonlinear MPC for Tracking Piece-Wise Constant Reference Signals. IEEE Transactions on Automatic Control, 2018, 63, 3735-3750.	5.7	104
33	Model predictive control of partially fading memory systems with binary inputs. Journal of Process Control, 2018, 64, 141-151.	3.3	4
34	A Distributed Set-membership Approach based on Zonotopes for Interconnected Systems. , 2018, , .		9
35	Zonotopic Constrained Kalman Filter Based on a Dual Formulation. , 2018, , .		3
36	Historian Data Based Predictive Control of a Water Distribution Network. , 2018, , .		3

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37	Data-based predictive control via direct weight optimization. IFAC-PapersOnLine, 2018, 51, 356-361.	0.9	26
38	Robust Design Through Probabilistic Maximization. Systems and Control: Foundations and Applications, 2018, , 247-274.	0.3	4
39	Implementation of Model Predictive Controllers in Programmable Logic Controllers using IEC 61131-3 standard. , 2018, , .		12
40	Economic Model Predictive Control with Nonlinear Constraint Relaxation for the Operational Management of Water Distribution Networks. Energies, 2018, 11, 991.	3.1	14
41	Interval Predictor based on Supporting Hyperplanes. , 2018, , .		0
42	Networked control design for coalitional schemes using game-theoretic methods. Automatica, 2017, 78, 320-332.	5.0	40
43	Robust Model Predictive Controller for Tracking Changing Periodic Signals. IEEE Transactions on Automatic Control, 2017, 62, 5343-5350.	5.7	20
44	A General Framework for Predictors Based on Bounding Techniques and Local Approximation. IEEE Transactions on Automatic Control, 2017, 62, 3430-3435.	5.7	29
45	Predictive Control with On-Off actuators of Partially Fading Memory Systems. IFAC-PapersOnLine, 2017, 50, 7187-7192.	0.9	0
46	Distributed Zonotopic Set-Membership State Estimation based on Optimization Methods with Partial Projection * *This work has been partially funded by the Spanish Government and FEDER through the projects CICYT ECOCIS (ref. DPI2013-48243), CICYT HARCRICS (ref. DPI2014-58104-R) and CICYT DEOCS (ref.) Tj ETQq0 0 0 rgBT /Over	0.9	6
47	Fault tolerant control approach based on multiple models and set-membership state estimation. , 2016, , .		3
48	Application to a large-scale drinking water network of robust MPC for tracking periodic references. , 2016, , .		2
49	Guaranteed state estimation and fault detection based on zonotopes for differential-algebraic-equation systems. , 2016, , .		6
50	Robust model predictive controller for tracking periodic signals. , 2016, , .		3
51	Set€membership methods applied to FDI and FTC. International Journal of Adaptive Control and Signal Processing, 2016, 30, 150-153.	4.1	6
52	Application to a drinking water network of robust periodic MPC. Control Engineering Practice, 2016, 57, 50-60.	5.5	14
53	Periodic economic model predictive control with nonlinear-constraint relaxation for water distribution networks. , 2016, , .		3
54	MPC for Tracking Periodic References. IEEE Transactions on Automatic Control, 2016, 61, 1123-1128.	5.7	64

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55	Slide Window Bounded-Error Time-Varying Systems Identification. IEEE Transactions on Automatic Control, 2016, 61, 2282-2287.	5.7	17
56	Combined Stochastic and Deterministic Interval Predictorˆ—âˆ——This research has been supported by DPI2012-33309 and DPI2013-48243-C2-2-R of Ministerio de EconomÃa y Competitividad (Spain).. IFAC-PapersOnLine, 2015, 48, 320-325.	0.9	0
57	A convex approach for NMPC based on second order Volterra series models. International Journal of Robust and Nonlinear Control, 2015, 25, 3546-3571.	3.7	7
58	Periodic Economic Control of a Nonisolated Microgrid. IEEE Transactions on Industrial Electronics, 2015, 62, 5247-5255.	7.9	64
59	Combined stochastic and deterministic interval predictor for time-varying systems. , 2015, , .		1
60	Interval predictor based on a Reversed Huber's error function. , 2015, , .		0
61	MPC implementation in a PLC based on Nesterov's fast gradient method. , 2015, , .		6
62	An algorithm with low computational requirements to constrain the Shapley value in coalitional networks. , 2015, , .		3
63	Application of Periodic Economic MPC to a Grid-Connected Micro-Grid**The financial support from Ministerio de EconomÃa y Competitividad (Project No. DPI2013-48243-C2-2-R) is gratefully acknowledged.. IFAC-PapersOnLine, 2015, 48, 513-518.	0.9	7
64	Randomized methods for design of uncertain systems: Sample complexity and sequential algorithms. Automatica, 2015, 52, 160-172.	5.0	115
65	Sensor fault detection and diagnosis using zonotopic set-membership estimation. , 2014, , .		8
66	Ellipsoidal state estimation for systems with interval uncertainties. , 2014, , .		8
67	Constraints on the shapley value for a coalitional control system. , 2014, , .		11
68	Robust predictor for nonlinear systems based on bounding-error methods. , 2014, , .		0
69	Improved set-membership estimation approach based on zonotopes and ellipsoids. , 2014, , .		31
70	A gradient-based strategy for the one-layer RTO+MPC controller. Journal of Process Control, 2014, 24, 435-447.	3.3	29
71	Single-layer economic model predictive control for periodic operation. Journal of Process Control, 2014, 24, 1207-1224.	3.3	70
72	A New Approach for Guaranteed Ellipsoidal State Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6533-6538.	0.4	23

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73	An Iterative Design Method for Coalitional Control Networks with Constraints on the Shapley Value. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1188-1193.	0.4	19
74	Zonotopic guaranteed state estimation for uncertain systems. Automatica, 2013, 49, 3418-3424.	5.0	156
75	Zonotope-based set-membership estimation for Multi-Output uncertain systems. , 2013, , .		22
76	Computationally efficient nonlinear Min–Max Model Predictive Control based on Volterra series models–Application to a pilot plant. Journal of Process Control, 2013, 23, 543-560.	3.3	28
77	Economic model predictive control of a smartgrid with hydrogen storage and PEM fuel cell. , 2013, , .		12
78	Tracking Model Predictive Control. , 2013, , 1-12.		0
79	Integrating the RTO in the MPC: An adaptive gradient-based approach. , 2013, , .		5
80	Zonotopic set-membership estimation for interval dynamic systems. , 2012, , .		11
81	Oracle based approach to admissible invariant sets. , 2012, , .		0
82	A Polynomial Matrix Inequality approach for zonotopic set-membership estimation of multivariable systems. , 2012, , .		1
83	A gradient-based strategy for integrating Real Time Optimizer (RTO) with Model Predictive Control (MPC). IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 33-38.	0.4	6
84	Model Predictive Control for changing economic targets. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 384-391.	0.4	9
85	MPC for tracking periodic reference signals. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 490-495.	0.4	21
86	Design and Application of Suboptimal Mixed H_{2}/H_{infty} Controllers for Networked Control Systems. IEEE Transactions on Control Systems Technology, 2012, 20, 1057-1065.	5.2	27
87	Robust semidefinite programming problems with general nonlinear parameter dependence: Approaches using the DC-representations. Automatica, 2012, 48, 2937-2944.	5.0	0
88	Randomized control design through probabilistic validation. , 2012, , .		8
89	A probabilistic approach for testing feedback controllers with application to congestion control. International Journal of Control, Automation and Systems, 2012, 10, 835-840.	2.7	0
90	Análisis y minimización del riesgo de rotura de stock aplicado a la gestión en farmacia hospitalaria. Farmacia Hospitalaria, 2012, 36, 130-134.	0.6	2

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91	On the explicit dead-time compensation for robust model predictive control. Journal of Process Control, 2012, 22, 236-246.	3.3	26
92	Invariant sets computation for convex difference inclusions systems. Systems and Control Letters, 2012, 61, 819-826.	2.3	22
93	Commande prédictive robuste par des techniques d'observateurs basées sur des ensembles zonotopiques. Journal Europeen Des Systemes Automatises, 2012, 46, 235-250.	0.4	2
94	Online robust tube-based MPC for time-varying systems: a practical approach. International Journal of Control, 2011, 84, 1157-1170.	1.9	72
95	Robust tube-based constrained predictive control via zonotopic set-membership estimation. , 2011, , .		12
96	Robust Semidefinite Programming Problems with General Nonlinear Parameter Dependence: Application of the DC-Representations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7939-7944.	0.4	0
97	A New Approach for Guaranteed State Estimation by Zonotopes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9242-9247.	0.4	10
98	Computational burden reduction in min–max MPC. Journal of the Franklin Institute, 2011, 348, 2430-2447.	3.4	15
99	Robust tube-based predictive control for mobile robots in off-road conditions. Robotics and Autonomous Systems, 2011, 59, 711-726.	5.1	47
100	Ultimate bounded stability and stabilization of linear systems interconnected with generalized saturated functions. Automatica, 2011, 47, 1473-1481.	5.0	19
101	Min–Max MPC based on an upper bound of the worst case cost with guaranteed stability. Application to a pilot plant. Journal of Process Control, 2011, 21, 194-204.	3.3	16
102	Distributed model predictive control based on agent negotiation. Journal of Process Control, 2011, 21, 685-697.	3.3	112
103	Optimal MPC for tracking of constrained linear systems. International Journal of Systems Science, 2011, 42, 1265-1276.	5.5	27
104	Enhanced robust NMPC based on nominal predictions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 220-225.	0.4	5
105	Randomized Algorithms and their application to renewable energy systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 163-168.	0.4	0
106	Model predictive control techniques for hybrid systems. Annual Reviews in Control, 2010, 34, 21-31.	7.9	126
107	On the computation of convex robust control invariant sets for nonlinear systems. Automatica, 2010, 46, 1334-1338.	5.0	63
108	Robust tube-based MPC for tracking of constrained linear systems with additive disturbances. Journal of Process Control, 2010, 20, 248-260.	3.3	208

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109	A convex approach for NMPC based on second order Volterra series models. , 2010, , .		0
110	Enhanced ISS nominal MPC based on constraint tightening for constrained linear systems. , 2010, , .		11
111	Robust tube based model predictive control for constrained systems with dead-time. , 2010, , .		1
112	Adaptive Control for a Mobile Robot Under Slip Conditions Using an LMI-Based Approach. European Journal of Control, 2010, 16, 144-155.	2.6	43
113	Fault-tolerant model predictive control. , 2010, , .		22
114	Modeling of a hybrid renewable/fossil hot water production system. , 2010, , .		0
115	On the sample complexity of randomized approaches to the analysis and design under uncertainty. , 2010, , .		46
116	On the Sample Complexity of Probabilistic Analysis and Design Methods. Lecture Notes in Control and Information Sciences, 2010, , 39-50.	1.0	22
117	Dynamic model of the relationships between technology and employment. , 2009, , .		0
118	MPC for tracking of constrained nonlinear systems. , 2009, , .		43
119	Robust fault detection using zonotopeâ€based setâ€membership consistency test. International Journal of Adaptive Control and Signal Processing, 2009, 23, 311-330.	4.1	92
120	Control of a pilot plant using QP based minâ€"max predictive control. Control Engineering Practice, 2009, 17, 1358-1366.	5.5	15
121	A robust constrained reference governor approach using linear matrix inequalities. Journal of Process Control, 2009, 19, 773-784.	3.3	11
122	Convex invariant sets for discrete-time Lurâ€™e systems. Automatica, 2009, 45, 1066-1071.	5.0	31
123	MPC for tracking with optimal closed-loop performance. Automatica, 2009, 45, 1975-1978.	5.0	118
124	Randomized Strategies for Probabilistic Solutions of Uncertain Feasibility and Optimization Problems. IEEE Transactions on Automatic Control, 2009, 54, 2545-2559.	5.7	151
125	Robust tube-based MPC for constrained mobile robots under slip conditions. , 2009, , .		12
126	Input-to-State Stability: A Unifying Framework for Robust Model Predictive Control. Lecture Notes in Control and Information Sciences, 2009, , 1-26.	1.0	115

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127	Control of Constrained Discrete-Time Systems With Bounded ℓ_{2} Gain. IEEE Transactions on Automatic Control, 2009, 54, 1105-1111.	5.7	22
128	Model Predictive Control techniques for Hybrid Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1-13.	0.4	2
129	Further Results on â€œRobust MPC Using Linear Matrix Inequalitiesâ€. Lecture Notes in Control and Information Sciences, 2009, , 89-98.	1.0	8
130	MPC for Tracking of Constrained Nonlinear Systems. Lecture Notes in Control and Information Sciences, 2009, , 315-323.	1.0	8
131	Nonlinear Min-Max Model Predictive Control based on Volterra models. Application to a pilot plant. , 2009, , .		0
132	Safety verification and adaptive model predictive control of the hybrid dynamics of a fuel cell system. International Journal of Adaptive Control and Signal Processing, 2008, 22, 142-160.	4.1	13
133	MPC for tracking piecewise constant references for constrained linear systems. Automatica, 2008, 44, 2382-2387.	5.0	392
134	On input-to-state stability of minâ€"max nonlinear model predictive control. Systems and Control Letters, 2008, 57, 39-48.	2.3	134
135	Minâ€"Max MPC based on a network problem. Systems and Control Letters, 2008, 57, 184-192.	2.3	10
136	A new vertex result for robustness problems with interval matrix uncertainty. Systems and Control Letters, 2008, 57, 474-481.	2.3	49
137	A set-membership state estimation algorithm based on DC programming. Automatica, 2008, 44, 216-224.	5.0	74
138	An algorithm for bounded-error identification of nonlinear systems based on DC functions. Automatica, 2008, 44, 437-444.	5.0	17
139	Robust tubed-based MPC for tracking applied to the quadruple-tank process. , 2008, , .		2
140	Dynamic Output Feedback for Discrete-Time Systems Under Amplitude and Rate Actuator Constraints. IEEE Transactions on Automatic Control, 2008, 53, 2367-2372.	5.7	47
141	Min-Max predictive control of a pilot plant using a QP approach. , 2008, , .		0
142	Min-Max Model Predictive Control of a pilot plant. , 2008, , .		6
143	An Efficient Maximization Algorithm With Implications in Min-Max Predictive Control. IEEE Transactions on Automatic Control, 2008, 53, 2192-2197.	5.7	10
144	MPC for tracking with optimal closed-loop performance. , 2008, , .		8

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145	Design of ISS-Lyapunov Functions for Discrete-Time Linear Uncertain Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1135-1140.	0.4	2
146	On the design of Robust tube-based MPC for tracking. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15333-15338.	0.4	25
147	Robust control of the distributed solar collector field ACUREX using MPC for tracking.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 958-963.	0.4	15
148	Revisiting statistical learning theory for uncertain feasibility and optimization problems. , 2007, , .		7
149	Piecewise Affine Model of a Fuel Cell for Safety Verification. Proceedings of the American Control Conference, 2007, , .	0.0	1
150	A convex approximation of the feasible solution set for nonlinear bounded-error identification problems. , 2007, , .		1
151	Improved sample size bounds for probabilistic robust control design: A pack-based strategy. , 2007, , .		11
152	New Methods for Computing the Terminal Cost for Min-max Model Predictive Control. Proceedings of the American Control Conference, 2007, , .	0.0	1
153	On the computation of local invariant sets for nonlinear systems. , 2007, , .		9
154	Robust tube based MPC for tracking of piece-wise constant references. , 2007, , .		20
155	Min–max model predictive control as a quadratic program. IET Control Theory and Applications, 2007, 1, 328-333.	2.1	22
156	Towards the practical implementation of min-max nonlinear Model Predictive Control. , 2007, , .		9
157	Adaptive Model Predictive Control of the Hybrid Dynamics of a Fuel Cell System. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	3
158	Discussion on: â€œGPC Robust Design Using Linear and/or Bilinear Matrix Inequalitiesâ€. European Journal of Control, 2007, 13, 470-472.	2.6	1
159	Output feedback Robust tube based MPC for tracking of piece-wise constant references. , 2007, , .		22
160	Robust GPC-QFT approach using Linear Matrix Inequalities. , 2007, , .		1
161	Min–max MPC using a tractable QP problem. Automatica, 2007, 43, 693-700.	5.0	26
162	On the Computation of Robust Control Invariant Sets for Piecewise Affine Systems. , 2007, , 131-139.		6

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163	Interval Arithmetic in Robust Nonlinear MPC. , 2007, , 317-326.		6
164	A sequentially optimal randomized algorithm for robust LMI feasibility problems. , 2007, , .		14
165	Robust Fault Detection Based on Zonotope-Based Set-Membership Parameter Consistency Test. , 2007, , 1056-1061.		0
166	Output Feedback for Discrete-Time Systems with Amplitude and Rate Constrained Actuators. Lecture Notes in Control and Information Sciences, 2007, , 369-396.	1.0	2
167	Discussion on: GPC Robust Design Using Linear and/or Bilinear Matrix Inequalities. European Journal of Control, 2007, 13, 468-472.	2.6	1
168	Bounded Error Identification of Systems With Time-Varying Parameters. IEEE Transactions on Automatic Control, 2006, 51, 1144-1150.	5.7	103
169	Feedback min-max model predictive control based on a quadratic cost function. , 2006, , .		9
170	A Decomposition Algorithm for Feedback Minâ€"Max Model Predictive Control. IEEE Transactions on Automatic Control, 2006, 51, 1688-1692.	5.7	21
171	On the Stability of Constrained MPC Without Terminal Constraint. IEEE Transactions on Automatic Control, 2006, 51, 832-836.	5.7	156
172	INTRODUCING LINEAR MATRIX INEQUALITIES IN A CONTROL COURSE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 205-210.	0.4	13
173	A PREDICTION APPROACH TO INTRODUCE DEAD-TIME PROCESS CONTROL IN A BASIC CONTROL COURSE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 211-216.	0.4	1
174	A JAVA BASED SIMULATOR FOR BASIC CONTROL EDUCATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 481-486.	0.4	1
175	SMALL-SCALE DOMOTIC SYSTEM AS PROTOTYPE OF REMOTE CYBERNETIC APPLICATIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 499-504.	0.4	0
176	SYNTHESIS OF ROBUST SATURATED CONTROLLERS: AN SNS-APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 477-482.	0.4	5
177	ROBUST FAULT DETECTION BASED ON ZONOTOPE-BASED SET-MEMBERSHIP PARAMETER CONSISTENCY TEST. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1056-1061.	0.4	1
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179	Input to state stability of minâ€"max MPC controllers for nonlinear systems with bounded uncertainties. Automatica, 2006, 42, 797-803.	5.0	182
180	A new concept of invariance for saturated systems. Automatica, 2006, 42, 1515-1521.	5.0	44

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182	Min-Max MPC based on a computationally efficient upper bound of the worst case cost. Journal of Process Control, 2006, 16, 511-519.	3.3	39
183	Explicit solution of minâ€"max MPC with additive uncertainties and quadratic criterion. Systems and Control Letters, 2006, 55, 266-274.	2.3	22
184	Estimation of the domain of attraction for saturated discrete-time systems. International Journal of Systems Science, 2006, 37, 575-583.	5.5	31
185	Predictive control of a Linear Motor for tracking of constant references. , 2006, , .		7
186	COMPUTATIONALLY EFFICIENT MIN-MAX MPC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 462-467.	0.4	1
187	MPC FOR TRACKING OF PIECE-WISE CONSTANT REFERENCES FOR CONSTRAINED LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 135-140.	0.4	33
188	Guaranteed state estimation by zonotopes. Automatica, 2005, 41, 1035-1043.	5.0	492
189	On the computation of invariant sets for constrained nonlinear systems: An interval arithmetic approach. Automatica, 2005, 41, 1583-1589.	5.0	71
190	Efficient implementation of constrained minâ€"max model predictive control with bounded uncertainties: a vertex rejection approach. Journal of Process Control, 2005, 15, 149-158.	3.3	30
191	Enlarging the domain of attraction of MPC controllers. Automatica, 2005, 41, 629-635.	5.0	93
192	Robust MPC of constrained nonlinear systems based on interval arithmetic. IET Control Theory and Applications, 2005, 152, 325-332.	1.7	71
193	Application of an explicit min-max MPC to a scaled laboratory process. Control Engineering Practice, 2005, 13, 1463-1471.	5.5	19
194	Constrained min-max predictive control: modifications of the objective function leading to polynomial complexity. IEEE Transactions on Automatic Control, 2005, 50, 710-714.	5.7	45
195	Improved MPC Design based on Saturating Control Laws*. European Journal of Control, 2005, 11, 112-122.	2.6	13
196	A convex parameterization for solving constrained min-max problems with a quadratic cost. , 2004, , .		10
197	A dynamic programming approach for determining the explicit solution of linear MPC controllers. , 2004, , .		14
198	Bounded error identification of systems with time-varying parameters. , 2004, , .		2

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199	Computation of polyhedral H-invariant sets for saturated systems. , 2004, , .		9
200	An efficient maximization algorithm with implications in min-max predictive control. , 2003, , .		2
201	Robust MPC of constrained discrete-time nonlinear systems based on zonotopes. , 2003, , .		4
202	On the computation of invariant sets for constrained nonlinear systems: An interval arithmetic approach. , 2003, , .		3
203	Improved MPC design based on saturating control laws. , 2003, , .		2
204	ENLARGING THE DOMAIN OF ATTRACTION OF MPC CONTROLLER USING INVARIANT SETS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 47-52.	0.4	5
205	Robust stability and structured uncertainty bounded by the Euclidean norm. International Journal of Robust and Nonlinear Control, 2001, 11, 749-770.	3.7	1
206	Using Rprop for on-line learning of inverse dynamics. , 2001, , .		0
207	Determining limit cycles in fuzzy control systems. , 0, , .		26
208	Robust MPC of constrained discrete-time nonlinear systems based on uncertain evolution sets: application to a CSTR model. , 0, , .		8
209	Efficient implementation of constrained min-max model predictive control with bounded uncertainties. , 0, , .		12
210	Stability analysis of systems with bounded additive uncertainties based on invariant sets: Stability and feasibility of MPC. , 0, , .		23
211	Input-to-state stable MPC for constrained discrete-time nonlinear systems with bounded additive uncertainties. , 0, , .		145
212	Efficient implementation of min-max model predictive control with bounded uncertainties. , 0, , .		2
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