

Frank Allgöwer

List of Publications by Year in descending order

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573
papers

15,228
citations

25034

57
h-index

30087

103
g-index

591
all docs

591
docs citations

591
times ranked

7423
citing authors

#	ARTICLE	IF	CITATIONS
1	A Quasi-Infinite Horizon Nonlinear Model Predictive Control Scheme with Guaranteed Stability—This paper was not presented at any IFAC meeting. This paper was accepted for publication in revised form by Associate Editor W. Bequette under the direction of Editor Prof. S. Skogestad.. Automatica, 1998, 34, 1205-1217.	5.0	1,228
2	An internal model principle is necessary and sufficient for linear output synchronization. Automatica, 2011, 47, 1068-1074.	5.0	782
3	Real-time optimization and nonlinear model predictive control of processes governed by differential-algebraic equations. Journal of Process Control, 2002, 12, 577-585.	3.3	573
4	Robust output feedback model predictive control of constrained linear systems. Automatica, 2006, 42, 1217-1222.	5.0	398
5	CONSTRUCTIVE SAFETY USING CONTROL BARRIER FUNCTIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 462-467.	0.4	290
6	State and Output Feedback Nonlinear Model Predictive Control: An Overview. European Journal of Control, 2003, 9, 190-206.	2.6	281
7	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. IEEE Transactions on Automatic Control, 2021, 66, 1702-1717.	5.7	273
8	Bistability Analyses of a Caspase Activation Model for Receptor-induced Apoptosis. Journal of Biological Chemistry, 2004, 279, 36892-36897.	3.4	262
9	High performance feedback for fast scanning atomic force microscopes. Review of Scientific Instruments, 2001, 72, 3320-3327.	1.3	240
10	Delay robustness in consensus problems. Automatica, 2010, 46, 1252-1265.	5.0	239
11	Consensus in Multi-Agent Systems With Coupling Delays and Switching Topology. IEEE Transactions on Automatic Control, 2011, 56, 2976-2982.	5.7	191
12	Robust model predictive control for nonlinear discrete-time systems. International Journal of Robust and Nonlinear Control, 2003, 13, 229-246.	3.7	189
13	Robust output feedback model predictive control of constrained linear systems: Time varying case. Automatica, 2009, 45, 2082-2087.	5.0	178
14	Nominal stability of real-time iteration scheme for nonlinear model predictive control. IET Control Theory and Applications, 2005, 152, 296-308.	1.7	168
15	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems. Systems and Control Letters, 2013, 62, 194-200.	2.3	154
16	Learning an Approximate Model Predictive Controller With Guarantees. , 2018, 2, 543-548.		153
17	A new control strategy for high-speed atomic force microscopy. Nanotechnology, 2004, 15, 108-114.	2.6	142
18	Constraint-Tightening and Stability in Stochastic Model Predictive Control. IEEE Transactions on Automatic Control, 2017, 62, 3165-3177.	5.7	138

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19	On topology and dynamics of consensus among linear high-order agents. <i>International Journal of Systems Science</i> , 2011, 42, 1831-1842.	5.5	118
20	Robust MPC with recursive model update. <i>Automatica</i> , 2019, 103, 461-471.	5.0	112
21	Distributed model predictive load frequency control of multi-area interconnected power system. <i>International Journal of Electrical Power and Energy Systems</i> , 2014, 62, 289-298.	5.5	105
22	Robust and optimal predictive control of the COVID-19 outbreak. <i>Annual Reviews in Control</i> , 2021, 51, 525-539.	7.9	103
23	A Benchmark for Methods in Reverse Engineering and Model Discrimination: Problem Formulation and Solutions. <i>Genome Research</i> , 2004, 14, 1773-1785.	5.5	101
24	Evaluation study of an efficient output feedback nonlinear model predictive control for temperature tracking in an industrial batch reactor. <i>Control Engineering Practice</i> , 2007, 15, 839-850.	5.5	100
25	Robust Consensus Controller Design for Nonlinear Relative Degree Two Multi-Agent Systems With Communication Constraints. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 145-151.	5.7	99
26	Cooperative control of dynamically decoupled systems via distributed model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , 2012, 22, 1376-1397.	3.7	99
27	On Necessity and Robustness of Dissipativity in Economic Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 1671-1676.	5.7	98
28	Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization. <i>Automatica</i> , 2016, 68, 132-139.	5.0	98
29	Robust self-triggered MPC for constrained linear systems: A tube-based approach. <i>Automatica</i> , 2016, 72, 73-83.	5.0	97
30	Delay Robustness in Non-Identical Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1597-1603.	5.7	95
31	Inherent robustness properties of quasi-infinite horizon nonlinear model predictive control. <i>Automatica</i> , 2014, 50, 2269-2280.	5.0	95
32	Unconstrained model predictive control and suboptimality estimates for nonlinear continuous-time systems. <i>Automatica</i> , 2012, 48, 1812-1817.	5.0	94
33	Safe and Fast Tracking on a Robot Manipulator: Robust MPC and Neural Network Control. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3050-3057.	5.1	92
34	Identification of models of heterogeneous cell populations from population snapshot data. <i>BMC Bioinformatics</i> , 2011, 12, 125.	2.6	88
35	Analysis and design of polynomial control systems using dissipation inequalities and sum of squares. <i>Computers and Chemical Engineering</i> , 2006, 30, 1590-1602.	3.8	87
36	Nonlinearity measures: definition, computation and applications. <i>Journal of Process Control</i> , 2000, 10, 113-123.	3.3	86

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37	An introduction to interconnection and damping assignment passivity-based control in process engineering. <i>Journal of Process Control</i> , 2009, 19, 1413-1426.	3.3	86
38	Robust data-driven state-feedback design. , 2020, , .		86
39	Nonlinear model predictive control for path following problems. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 1168-1182.	3.7	83
40	Bistable Biological Systems: A Characterization Through Local Compact Input-to-State Stability. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 87-100.	5.7	82
41	Collective Circular Motion of Unicycle Type Vehicles With Nonidentical Constant Velocities. <i>IEEE Transactions on Control of Network Systems</i> , 2014, 1, 167-176.	3.7	80
42	On consensus in multi-agent systems with linear high-order agents. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 1541-1546.	0.4	79
43	Duality and network theory in passivity-based cooperative control. <i>Automatica</i> , 2014, 50, 2051-2061.	5.0	79
44	A Computationally Efficient Robust Model Predictive Control Framework for Uncertain Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 794-801.	5.7	78
45	A normal form approach to approximate input-output linearization for maximum phase nonlinear SISO systems. <i>IEEE Transactions on Automatic Control</i> , 1996, 41, 305-309.	5.7	77
46	A distributed simplex algorithm for degenerate linear programs and multi-agent assignments. <i>Automatica</i> , 2012, 48, 2298-2304.	5.0	77
47	On robust synchronization of heterogeneous linear multi-agent systems with static couplings. <i>Automatica</i> , 2015, 53, 392-399.	5.0	77
48	Economic model predictive control with self-tuning terminal cost. <i>European Journal of Control</i> , 2013, 19, 408-416.	2.6	74
49	Robust Event-Triggered MPC With Guaranteed Asymptotic Bound and Average Sampling Rate. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 5694-5709.	5.7	74
50	High-gain adaptive \hat{L} -tracking for nonlinear systems. <i>Automatica</i> , 1997, 33, 881-888.	5.0	71
51	Model predictive control of switched nonlinear systems under average dwell-time. <i>Journal of Process Control</i> , 2012, 22, 1702-1710.	3.3	71
52	One-Shot Verification of Dissipativity Properties From Input-Output Data. , 2019, 3, 709-714.		71
53	Observer with sample-and-hold updating for Lipschitz nonlinear systems with nonuniformly sampled measurements. , 2008, , .		70
54	Tube-based robust economic model predictive control. <i>Journal of Process Control</i> , 2014, 24, 1237-1246.	3.3	70

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55	Performance and design of cycles in consensus networks. <i>Systems and Control Letters</i> , 2013, 62, 85-96.	2.3	67
56	A trajectory-based framework for data-driven system analysis and control. , 2020, , .		66
57	Robustness properties of apoptosis models with respect to parameter variations and intrinsic noise. <i>IET Systems Biology</i> , 2005, 152, 221.	2.0	65
58	Output feedback stabilization of constrained systems with nonlinear predictive control. <i>International Journal of Robust and Nonlinear Control</i> , 2003, 13, 211-227.	3.7	63
59	Decentralized state feedback control for interconnected systems with application to power systems. <i>Journal of Process Control</i> , 2014, 24, 379-388.	3.3	61
60	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 254-269.	5.7	61
61	Periodic event-triggered control for networked control systems based on non-monotonic Lyapunov functions. <i>Automatica</i> , 2019, 106, 35-46.	5.0	60
62	Reduction of mathematical models of signal transduction networks: simulation-based approach applied to EGF receptor signalling. <i>IET Systems Biology</i> , 2004, 1, 159-169.	2.0	59
63	Consensus reaching in multi-agent packet-switched networks with non-linear coupling. <i>International Journal of Control</i> , 2009, 82, 953-969.	1.9	57
64	Improving performance in model predictive control: Switching cost functionals under average dwell-time. <i>Automatica</i> , 2012, 48, 402-409.	5.0	56
65	A Polyhedral Approximation Framework for Convex and Robust Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , 2014, 59, 384-395.	5.7	56
66	Practical synchronization with diffusive couplings. <i>Automatica</i> , 2015, 53, 235-243.	5.0	54
67	An Internal Model Principle for Consensus in Heterogeneous Linear Multi-Agent Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009, 42, 7-12.	0.4	53
68	A Distributed Control Approach to Formation Balancing and Maneuvering of Multiple Multirotor UAVs. <i>IEEE Transactions on Robotics</i> , 2018, 34, 870-882.	10.3	52
69	A note on stability, robustness and performance of output feedback nonlinear model predictive control. <i>Journal of Process Control</i> , 2003, 13, 633-644.	3.3	51
70	Delay-dependent rendezvous and flocking of large scale multi-agent systems with communication delays. , 2008, , .		51
71	Training Robust Neural Networks Using Lipschitz Bounds. , 2022, 6, 121-126.		51
72	Design of structured dynamic output-feedback controllers for interconnected systems. <i>International Journal of Control</i> , 2011, 84, 2081-2091.	1.9	50

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73	Learning-Based Robust Model Predictive Control with State-Dependent Uncertainty. IFAC-PapersOnLine, 2018, 51, 442-447.	0.9	50
74	Model predictive control of constrained LPV systems. International Journal of Control, 2012, 85, 671-683.	1.9	48
75	A Nonlinear Model Predictive Control Framework Using Reference Generic Terminal Ingredients. IEEE Transactions on Automatic Control, 2020, 65, 3576-3583.	5.7	48
76	Stochastic MPC with offline uncertainty sampling. Automatica, 2017, 81, 176-183.	5.0	47
77	On Synchronous Steady States and Internal Models of Diffusively Coupled Systems. IEEE Transactions on Automatic Control, 2013, 58, 2591-2602.	5.7	46
78	An Efficient Algorithm for Nonlinear Model Predictive Control of Large-Scale Systems Part I: Description of the Method (Ein effizienter Algorithmus für die nichtlineare prädiktive Regelung) Tj ETQq0 0 0 rg BT, Overlock 10 Tf 50		
79	Observers with impulsive dynamical behavior for linear and nonlinear continuous-time systems. , 2007, , .		44
80	Rigidity Maintenance Control for Multi-Robot Systems. , 0, , .		44
81	Adaptive tracking for nonlinear higher relative degree systems. Automatica, 2005, 41, 1191-1200.	5.0	43
82	Motivation and Learning Progress Through Educational Games. IEEE Transactions on Industrial Electronics, 2007, 54, 3141-3144.	7.9	43
83	On the performance of economic model predictive control with self-tuning terminal cost. Journal of Process Control, 2014, 24, 1179-1186.	3.3	42
84	Frequency synchronization and phase agreement in Kuramoto oscillator networks with delays. Automatica, 2012, 48, 3008-3017.	5.0	41
85	Wound-healing growth factor, basic FGF, induces Erk1/2-dependent mechanical hyperalgesia. Pain, 2013, 154, 2216-2226.	4.2	41
86	Mechanism of PP2A-mediated IKK β dephosphorylation: a systems biological approach. BMC Systems Biology, 2009, 3, 71.	3.0	40
87	Ensemble Observability of Linear Systems. IEEE Transactions on Automatic Control, 2016, 61, 1452-1465.	5.7	40
88	Simulation of dynamics-coupling in piezoelectric tube scanners by reduced order finite element analysis. Review of Scientific Instruments, 2008, 79, 015105.	1.3	39
89	Parameter identification, experimental design and model falsification for biological network models using semidefinite programming. IET Systems Biology, 2010, 4, 119-130.	1.5	39
90	Convergence in economic model predictive control with average constraints. Automatica, 2014, 50, 3100-3111.	5.0	39

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91	Robust stability and instability of biochemical networks with parametric uncertainty. Automatica, 2011, 47, 1139-1146.	5.0	38
92	On the role of dissipativity in economic model predictive control. IFAC-PapersOnLine, 2015, 48, 110-116.	0.9	38
93	Event-Based Vehicle Coordination Using Nonlinear Unidirectional Controllers. IEEE Transactions on Control of Network Systems, 2018, 5, 1575-1584.	3.7	38
94	Heterogeneity reduces sensitivity of cell death for TNF-Stimuli. BMC Systems Biology, 2011, 5, 204.	3.0	37
95	A novel constraint tightening approach for nonlinear robust model predictive control. , 2018, , .		37
96	Collision avoidance for uncertain nonlinear systems with moving obstacles using robust Model Predictive Control. , 2019, , .		37
97	Nonlinear Model Predictive Control of a Turbocharged Diesel Engine. , 2006, , .		37
98	Discrete-time Incremental ISS: A framework for Robust NMPC. , 2013, , .		36
99	Robust nonlinear control approach to nontrivial maneuvers and obstacle avoidance for quadrotor UAV under disturbances. Robotics and Autonomous Systems, 2017, 98, 317-332.	5.1	36
100	A computationally attractive nonlinear predictive control scheme with guaranteed stability for stable systems. Journal of Process Control, 1998, 8, 475-485.	3.3	34
101	Response to Bistability in Apoptosis: Roles of Bax, Bcl-2, and Mitochondrial Permeability Transition Pores. Biophysical Journal, 2007, 92, 3332-3334.	0.5	34
102	Steady state and (bi-) stability evaluation of simple protease signalling networks. BioSystems, 2007, 90, 591-601.	2.0	34
103	On convergence of averagely constrained economic MPC and necessity of dissipativity for optimal steady-state operation. , 2013, , .		34
104	Robust economic Model Predictive Control using stochastic information. Automatica, 2016, 74, 151-161.	5.0	33
105	Adaptive Model Predictive Control with Robust Constraint Satisfaction. IFAC-PapersOnLine, 2017, 50, 3313-3318.	0.9	33
106	Event-triggered and self-triggered control for linear systems based on reachable sets. Automatica, 2019, 101, 15-26.	5.0	33
107	Nonlinear model predictive control of a four tank system: An experimental stability study. , 2006, , .		32
108	Theory, algorithms and technology in the design of control systems. Annual Reviews in Control, 2006, 30, 19-30.	7.9	32

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109	Pain modulators regulate the dynamics of PKA-RII phosphorylation in subgroups of sensory neurons. <i>Journal of Cell Science</i> , 2014, 127, 216-29.	2.0	32
110	The Role of Sampling for Stability and Performance in Unconstrained Nonlinear Model Predictive Control. <i>SIAM Journal on Control and Optimization</i> , 2014, 52, 581-605.	2.1	32
111	Some problems arising in controller design from big data via input-output methods. , 2016, , .		32
112	Real-Time Optimization for Large Scale Processes: Nonlinear Model Predictive Control of a High Purity Distillation Column. , 2001, , 363-383.		32
113	Analysis of Networked Event-Based Control with a Shared Communication Medium: Part I " Pure ALOHA. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 10092-10097.	0.4	31
114	A robust adaptive model predictive control framework for nonlinear uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021, 31, 8725-8749.	3.7	31
115	A nonlinear tracking model predictive control scheme for dynamic target signals. <i>Automatica</i> , 2020, 118, 109030.	5.0	30
116	Barrel temperature control during operation transition in injection molding. <i>Control Engineering Practice</i> , 2008, 16, 1259-1264.	5.5	29
117	Analysis and Simulation of Division- and Label-Structured Population Models. <i>Bulletin of Mathematical Biology</i> , 2012, 74, 2692-732.	1.9	29
118	Nonlinear Model Predictive Control of a Four Tank System: An Experimental Stability Study. , 2006, , .		29
119	Self-scheduled H_{∞} output feedback control of descriptor systems. <i>Computers and Chemical Engineering</i> , 2000, 24, 279-284.	3.8	28
120	A Finite Time Unknown Input Observer For Linear Systems. , 2006, , .		28
121	An internal model principle for synchronization. , 2009, , .		28
122	Stabilization of linear systems with distributed input delay. , 2010, , .		28
123	Stochastic thresholds in event-triggered control: A consistent policy for quadratic control. <i>Automatica</i> , 2018, 89, 376-381.	5.0	28
124	ℓ_1 -Optimal Control of Large Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1079-1089.	5.2	27
125	Hierarchical Clustering of Dynamical Networks Using a Saddle-Point Analysis. <i>IEEE Transactions on Automatic Control</i> , 2013, 58, 113-124.	5.7	27
126	Control Strategies Towards Faster Quantitative Imaging in Atomic Force Microscopy. <i>European Journal of Control</i> , 2005, 11, 384-395.	2.6	26

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127	Nonlinear model predictive control of a turbocharged diesel engine. , 2006, , .		26
128	Linear robust adaptive model predictive control: Computational complexity and conservatism. , 2019, , .		26
129	2. A Stabilizing Real-Time Implementation of Nonlinear Model Predictive Control. , 2007, , 25-52.		25
130	Nonlinear Model Predictive Control: A Passivity-Based Approach. , 2007, , 151-162.		25
131	Robust self-triggered MPC for constrained linear systems. , 2014, , .		25
132	Stabilization of networked control systems with weakly hard real-time dropout description. , 2017, , .		25
133	Model predictive control for autonomous ground vehicles: a review. Autonomous Intelligent Systems, 2021, 1, 1.	3.1	25
134	Sampled-Data Nonlinear Model Predictive Control for Constrained Continuous Time Systems. Lecture Notes in Control and Information Sciences, 2007, , 207-235.	1.0	25
135	Towards a Sampled-Data Theory for Nonlinear Model Predictive Control. Lecture Notes in Control and Information Sciences, 0, , 295-311.	1.0	24
136	Stability Analysis of Time-Delay Systems With Incommensurate Delays Using Positive Polynomials. IEEE Transactions on Automatic Control, 2009, 54, 1019-1024.	5.7	24
137	Analysis of heterogeneous cell populations: A density-based modeling and identification framework. Journal of Process Control, 2011, 21, 1417-1425.	3.3	24
138	Data-driven model predictive control: closed-loop guarantees and experimental results. Automatisierungstechnik, 2021, 69, 608-618.	0.8	24
139	Linear control of nonlinear systems based on nonlinearity measures. Journal of Process Control, 2007, 17, 273-284.	3.3	23
140	Transient average constraints in economic model predictive control. Automatica, 2014, 50, 2943-2950.	5.0	23
141	Sampling strategies for data-driven inference of passivity properties. , 2017, , .		23
142	Finite time convergent observers for nonlinear systems. , 0, , .		22
143	Controller parameterization for SISO and MIMO plants with time delay. Systems and Control Letters, 2006, 55, 794-802.	2.3	22
144	An impulsive observer that estimates the exact state of a linear continuous-time system in predetermined finite time. , 2007, , .		22

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145	Stability analysis of constrained control systems: An alternative approach. Systems and Control Letters, 2007, 56, 93-98.	2.3	22
146	Stabilizing model predictive control for LPV systems subject to constraints with parameter-dependent control law. , 2009, , .		22
147	Enhancing Output-Feedback MPC With Set-Valued Moving Horizon Estimation. IEEE Transactions on Automatic Control, 2018, 63, 2976-2986.	5.7	22
148	On optimal system operation in robust economic MPC. Automatica, 2018, 88, 98-106.	5.0	22
149	Results Towards Identifiability Properties of Biochemical Reaction Networks. , 2006, , .		21
150	On System Gains, Nonlinearity Measures, and Linear Models for Nonlinear Systems. IEEE Transactions on Automatic Control, 2009, 54, 62-78.	5.7	21
151	Cell differentiation modeled via a coupled two-switch regulatory network. Chaos, 2010, 20, 045121.	2.5	21
152	Model predictive control using reduced order models: Guaranteed stability for constrained linear systems. Journal of Process Control, 2014, 24, 1647-1659.	3.3	21
153	A distributed economic MPC framework for cooperative control under conflicting objectives. Automatica, 2018, 96, 368-379.	5.0	21
154	Data-Based System Analysis and Control of Flat Nonlinear Systems. , 2021, , .		21
155	Topology-dependent stability of a network of dynamical systems with communication delays. , 2007, , .		20
156	Nonlinear Multi-Agent System Consensus with Time-Varying Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 1522-1527.	0.4	20
157	Cooperative control of linear parameter-varying systems. , 2012, , .		20
158	Robust self-triggered model predictive control for constrained discrete-time LTI systems based on homothetic tubes. , 2015, , .		20
159	Towards Networked Control Systems with guaranteed stability: Using weakly hard real-time constraints to model the loss process. , 2015, , .		20
160	A moment-based approach to ensemble controllability of linear systems. Systems and Control Letters, 2016, 98, 49-56.	2.3	20
161	An Offline-Sampling SMPC Framework With Application to Autonomous Space Maneuvers. IEEE Transactions on Control Systems Technology, 2020, 28, 388-402.	5.2	20
162	On the design of terminal ingredients for data-driven MPC. IFAC-PapersOnLine, 2021, 54, 257-263.	0.9	20

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163	Data-Driven Tracking MPC for Changing Setpoints. IFAC-PapersOnLine, 2020, 53, 6923-6930.	0.9	20
164	General quadratic performance analysis and synthesis of differential algebraic equation (DAE) systems. Journal of Process Control, 2002, 12, 467-474.	3.3	19
165	Polynomial Feedback and Observer Design using Nonquadratic Lyapunov Functions. , 0, , .		19
166	Stability Analysis for Time-Delay Systems using Rekasius's Substitution and Sum of Squares. , 2006, , .		18
167	Generalized Nyquist consensus condition for high-order linear multi-agent systems with communication delays. , 2009, , .		18
168	Model predictive control of constrained non-linear time-delay systems. IMA Journal of Mathematical Control and Information, 2011, 28, 183-201.	1.7	18
169	On the zeros of consensus networks. , 2011, , .		18
170	Sampled Observability and State Estimation of Linear Discrete Ensembles. IEEE Transactions on Automatic Control, 2017, 62, 2406-2418.	5.7	18
171	Dissipativity properties in constrained optimal control: A computational approach. Automatica, 2020, 114, 108840.	5.0	18
172	Robustness of steady-state optimality in economic model predictive control. , 2012, , .		17
173	Real time economic dispatch for power networks: A distributed economic model predictive control approach. , 2017, , .		17
174	Determining dissipation inequalities from input-output samples * *The authors thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart.. IFAC-PapersOnLine, 2017, 50, 7789-7794.	0.9	17
175	Some Ideas on Sampling Strategies for Data-Driven Inference of Passivity Properties for MIMO Systems. , 2018, , .		17
176	Data-driven analysis and control of continuous-time systems under aperiodic sampling. IFAC-PapersOnLine, 2021, 54, 210-215.	0.9	17
177	OUTPUT FEEDBACK NONLINEAR PREDICTIVE CONTROL -A SEPARATION PRINCIPLE APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 201-206.	0.4	16
178	Design of biomolecular network modifications to achieve adaptation. IET Systems Biology, 2012, 6, 223-231.	1.5	16
179	Moving horizon $\hat{a}_{\check{z}}$ control of variable speed wind turbines with actuator saturation. IET Renewable Power Generation, 2014, 8, 498-508.	3.1	16
180	Output synchronization of linear multi-agent systems under constant disturbances via distributed integral action. , 2015, , .		16

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181	Distributed model predictive control – Recursive feasibility under inexact dual optimization. Automatica, 2019, 102, 1-9.	5.0	16
182	Stochastic model predictive control without terminal constraints. International Journal of Robust and Nonlinear Control, 2019, 29, 4987-5001.	3.7	16
183	A Finite Time Functional Observer For Linear Systems. , 0, , .		15
184	A nonlinear model predictive control approach for robust end-point property control of a thin-film deposition process. International Journal of Robust and Nonlinear Control, 2007, 17, 1600-1613.	3.7	15
185	Bridging time scales in cellular decision making with a stochastic bistable switch. BMC Systems Biology, 2010, 4, 108.	3.0	15
186	Growing optimally rigid formations. , 2012, , .		15
187	On the Necessity of Diffusive Couplings in Linear Synchronization Problems With Quadratic Cost. IEEE Transactions on Automatic Control, 2015, 60, 3029-3034.	5.7	15
188	An improved constraint-tightening approach for Stochastic MPC. , 2015, , .		15
189	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. IEEE Transactions on Automatic Control, 2017, 62, 3339-3353.	5.7	15
190	Dissipativity Verification With Guarantees for Polynomial Systems From Noisy Input-State Data. , 2021, 5, 1399-1404.		15
191	The quasi-infinite horizon approach to nonlinear model predictive control. , 2003, , 89-108.		15
192	Mathematical Modeling and Analysis of Force Induced Bone Growth. , 2006, 2006, 3154-7.		14
193	Guaranteed steady state bounds for uncertain (bio-)chemical processes using infeasibility certificates. Journal of Process Control, 2010, 20, 1076-1083.	3.3	14
194	Predictive control for polynomial systems subject to constraints using sum of squares. , 2010, , .		14
195	Analysis of Networked Event-Based Control with a Shared Communication Medium: Part II – Slotted ALOHA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8830-8835.	0.4	14
196	A general distributed MPC framework for cooperative control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7987-7992.	0.4	14
197	Augmenting MPC Schemes With Active Learning: Intuitive Tuning and Guaranteed Performance. , 2020, 4, 713-718.		14
198	Definition and Computation of a Nonlinearity Measure. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1995, 28, 257-262.	0.4	13

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