

Florian Brunner

List of Publications by Year in descending order

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265
papers

4,964
citations

147801
31
h-index

168389
53
g-index

267
all docs

267
docs citations

267
times ranked

3090
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. IEEE Transactions on Automatic Control, 2021, 66, 1702-1717.	5.7	273
2	Consensus in Multi-Agent Systems With Coupling Delays and Switching Topology. IEEE Transactions on Automatic Control, 2011, 56, 2976-2982.	5.7	191
3	Learning an Approximate Model Predictive Controller With Guarantees. , 2018, 2, 543-548.		153
4	On topology and dynamics of consensus among linear high-order agents. International Journal of Systems Science, 2011, 42, 1831-1842.	5.5	118
5	Robust and optimal predictive control of the COVID-19 outbreak. Annual Reviews in Control, 2021, 51, 525-539.	7.9	103
6	Robust Consensus Controller Design for Nonlinear Relative Degree Two Multi-Agent Systems With Communication Constraints. IEEE Transactions on Automatic Control, 2011, 56, 145-151.	5.7	99
7	Cooperative control of dynamically decoupled systems via distributed model predictive control. International Journal of Robust and Nonlinear Control, 2012, 22, 1376-1397.	3.7	99
8	Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization. Automatica, 2016, 68, 132-139.	5.0	98
9	Robust self-triggered MPC for constrained linear systems: A tube-based approach. Automatica, 2016, 72, 73-83.	5.0	97
10	Delay Robustness in Non-Identical Multi-Agent Systems. IEEE Transactions on Automatic Control, 2012, 57, 1597-1603.	5.7	95
11	Safe and Fast Tracking on a Robot Manipulator: Robust MPC and Neural Network Control. IEEE Robotics and Automation Letters, 2020, 5, 3050-3057.	5.1	92
12	Robust data-driven state-feedback design. , 2020, , .		86
13	Nonlinear model predictive control for path following problems. International Journal of Robust and Nonlinear Control, 2015, 25, 1168-1182.	3.7	83
14	Bistable Biological Systems: A Characterization Through Local Compact Input-to-State Stability. IEEE Transactions on Automatic Control, 2008, 53, 87-100.	5.7	82
15	Duality and network theory in passivity-based cooperative control. Automatica, 2014, 50, 2051-2061.	5.0	79
16	A Computationally Efficient Robust Model Predictive Control Framework for Uncertain Nonlinear Systems. IEEE Transactions on Automatic Control, 2021, 66, 794-801.	5.7	78
17	Economic model predictive control with self-tuning terminal cost. European Journal of Control, 2013, 19, 408-416.	2.6	74
18	Robust Event-Triggered MPC With Guaranteed Asymptotic Bound and Average Sampling Rate. IEEE Transactions on Automatic Control, 2017, 62, 5694-5709.	5.7	74

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19	One-Shot Verification of Dissipativity Properties From Input–Output Data. , 2019, 3, 709-714.		71
20	Observer with sample-and-hold updating for Lipschitz nonlinear systems with nonuniformly sampled measurements. , 2008, , .		70
21	A trajectory-based framework for data-driven system analysis and control. , 2020, , .		66
22	Output feedback stabilization of constrained systems with nonlinear predictive control. International Journal of Robust and Nonlinear Control, 2003, 13, 211-227.	3.7	63
23	Decentralized state feedback control for interconnected systems with application to power systems. Journal of Process Control, 2014, 24, 379-388.	3.3	61
24	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. IEEE Transactions on Automatic Control, 2019, 64, 254-269.	5.7	61
25	Consensus reaching in multi-agent packet-switched networks with non-linear coupling. International Journal of Control, 2009, 82, 953-969.	1.9	57
26	A Polyhedral Approximation Framework for Convex and Robust Distributed Optimization. IEEE Transactions on Automatic Control, 2014, 59, 384-395.	5.7	56
27	A Distributed Control Approach to Formation Balancing and Maneuvering of Multiple Multirotor UAVs. IEEE Transactions on Robotics, 2018, 34, 870-882.	10.3	52
28	Delay-dependent rendezvous and flocking of large scale multi-agent systems with communication delays. , 2008, , .		51
29	Training Robust Neural Networks Using Lipschitz Bounds. , 2022, 6, 121-126.		51
30	Linear Tracking MPC for Nonlinear Systems—Part II: The Data-Driven Case. IEEE Transactions on Automatic Control, 2022, 67, 4406-4421.	5.7	51
31	Design of structured dynamic output-feedback controllers for interconnected systems. International Journal of Control, 2011, 84, 2081-2091.	1.9	50
32	Model predictive control of constrained LPV systems. International Journal of Control, 2012, 85, 671-683.	1.9	48
33	A Nonlinear Model Predictive Control Framework Using Reference Generic Terminal Ingredients. IEEE Transactions on Automatic Control, 2020, 65, 3576-3583.	5.7	48
34	On Synchronous Steady States and Internal Models of Diffusively Coupled Systems. IEEE Transactions on Automatic Control, 2013, 58, 2591-2602.	5.7	46
35	Observers with impulsive dynamical behavior for linear and nonlinear continuous-time systems. , 2007, , .		44
36	Motivation and Learning Progress Through Educational Games. IEEE Transactions on Industrial Electronics, 2007, 54, 3141-3144.	7.9	43

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37	Ensemble Observability of Linear Systems. IEEE Transactions on Automatic Control, 2016, 61, 1452-1465.	5.7	40
38	Event-Based Vehicle Coordination Using Nonlinear Unidirectional Controllers. IEEE Transactions on Control of Network Systems, 2018, 5, 1575-1584.	3.7	38
39	A novel constraint tightening approach for nonlinear robust model predictive control. , 2018, , .		37
40	Collision avoidance for uncertain nonlinear systems with moving obstacles using robust Model Predictive Control. , 2019, , .		37
41	Discrete-time Incremental ISS: A framework for Robust NMPC. , 2013, , .		36
42	On convergence of averagely constrained economic MPC and necessity of dissipativity for optimal steady-state operation. , 2013, , .		34
43	Event-triggered and self-triggered control for linear systems based on reachable sets. Automatica, 2019, 101, 15-26.	5.0	33
44	Nonlinear model predictive control of a four tank system: An experimental stability study. , 2006, , .		32
45	Some problems arising in controller design from big data via input-output methods. , 2016, , .		32
46	A robust adaptive model predictive control framework for nonlinear uncertain systems. International Journal of Robust and Nonlinear Control, 2021, 31, 8725-8749.	3.7	31
47	Nonlinear Model Predictive Control of a Four Tank System: An Experimental Stability Study. , 2006, , .		29
48	A Finite Time Unknown Input Observer For Linear Systems. , 2006, , .		28
49	An internal model principle for synchronization. , 2009, , .		28
50	Stabilization of linear systems with distributed input delay. , 2010, , .		28
51	Stochastic thresholds in event-triggered control: A consistent policy for quadratic control. Automatica, 2018, 89, 376-381.	5.0	28
52	Feedback design for multi-agent systems: A saddle point approach. , 2012, , .		27
53	Stochastic Optimal Control of Large Wind Turbines. IEEE Transactions on Control Systems Technology, 2013, 21, 1079-1089.	5.2	27
54	Hierarchical Clustering of Dynamical Networks Using a Saddle-Point Analysis. IEEE Transactions on Automatic Control, 2013, 58, 113-124.	5.7	27

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55	Linear robust adaptive model predictive control: Computational complexity and conservatism. , 2019, , .		26
56	Robust Constraint Satisfaction in Data-Driven MPC. , 2020, , .		26
57	Stabilization of networked control systems with weakly hard real-time dropout description. , 2017, , .		25
58	Model predictive control for autonomous ground vehicles: a review. Autonomous Intelligent Systems, 2021, 1, 1.	3.1	25
59	Stability Analysis of Time-Delay Systems With Incommensurate Delays Using Positive Polynomials. IEEE Transactions on Automatic Control, 2009, 54, 1019-1024.	5.7	24
60	An impulsive observer that estimates the exact state of a linear continuous-time system in predetermined finite time. , 2007, , .		22
61	Enhancing Output-Feedback MPC With Set-Valued Moving Horizon Estimation. IEEE Transactions on Automatic Control, 2018, 63, 2976-2986.	5.7	22
62	Results Towards Identifiability Properties of Biochemical Reaction Networks. , 2006, , .		21
63	On System Gains, Nonlinearity Measures, and Linear Models for Nonlinear Systems. IEEE Transactions on Automatic Control, 2009, 54, 62-78.	5.7	21
64	Data-Based System Analysis and Control of Flat Nonlinear Systems. , 2021, , .		21
65	Topology-dependent stability of a network of dynamical systems with communication delays. , 2007, , .		20
66	Cooperative control of linear parameter-varying systems. , 2012, , .		20
67	Towards Networked Control Systems with guaranteed stability: Using weakly hard real-time constraints to model the loss process. , 2015, , .		20
68	Stability Analysis for Time-Delay Systems using Rekasius's Substitution and Sum of Squares. , 2006, , .		18
69	Generalized Nyquist consensus condition for high-order linear multi-agent systems with communication delays. , 2009, , .		18
70	On the zeros of consensus networks. , 2011, , .		18
71	Sampled Observability and State Estimation of Linear Discrete Ensembles. IEEE Transactions on Automatic Control, 2017, 62, 2406-2418.	5.7	18
72	Robustness of steady-state optimality in economic model predictive control. , 2012, , .		17

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73	Some Ideas on Sampling Strategies for Data-Driven Inference of Passivity Properties for MIMO Systems. , 2018, , .		17
74	Moving horizon \hat{z} control of variable speed wind turbines with actuator saturation. IET Renewable Power Generation, 2014, 8, 498-508.	3.1	16
75	Output synchronization of linear multi-agent systems under constant disturbances via distributed integral action. , 2015, , .		16
76	Stochastic model predictive control without terminal constraints. International Journal of Robust and Nonlinear Control, 2019, 29, 4987-5001.	3.7	16
77	Robust Stability Analysis of a Simple Data-Driven Model Predictive Control Approach. IEEE Transactions on Automatic Control, 2023, 68, 2625-2637.	5.7	16
78	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
79	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. IEEE Transactions on Automatic Control, 2017, 62, 3339-3353.	5.7	15
80	Dissipativity Verification With Guarantees for Polynomial Systems From Noisy Input-State Data. , 2021, 5, 1399-1404.		15
81	Predictive control for polynomial systems subject to constraints using sum of squares. , 2010, , .		14
82	Augmenting MPC Schemes With Active Learning: Intuitive Tuning and Guaranteed Performance. , 2020, 4, 713-718.		14
83	Certainty-Equivalence Feedback Design With Polynomial-Type Feedbacks Which Guarantee ISS. IEEE Transactions on Automatic Control, 2007, 52, 716-720.	5.7	13
84	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems. , 2011, , .		13
85	Sensitization of glioblastoma cells to TRAIL-induced apoptosis by IAP- and Bcl-2 antagonism. Cell Death and Disease, 2018, 9, 1112.	6.3	13
86	Verifying dissipativity properties from noise-corrupted input-state data. , 2020, , .		13
87	Searching bifurcations in high-dimensional parameter space via a feedback loop breaking approach. International Journal of Systems Science, 2009, 40, 769-782.	5.5	12
88	On the optimal sending rate for Networked Control Systems with a shared communication medium. , 2011, , .		12
89	A constructive approach to Synchronization using relative information. , 2012, , .		12
90	Semi-explicit MPC based on subspace clustering. Automatica, 2017, 83, 309-316.	5.0	12

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91	Bcl-2-mediated control of TRAIL-induced apoptotic response in the non-small lung cancer cell line NCI-H460 is effective at late caspase processing steps. PLoS ONE, 2018, 13, e0198203.	2.5	12
92	Dynamic Resource Allocation to Control Epidemic Outbreaks A Model Predictive Control Approach. , 2018, , .		12
93	On Periodic Dissipativity Notions in Economic Model Predictive Control. , 2018, 2, 501-506.		12
94	Data-Driven Control of Nonlinear Systems: Beyond Polynomial Dynamics. , 2021, , .		12
95	Kinetic perturbations as robustness analysis tool for biochemical reaction networks. , 2009, , .		11
96	Robust model predictive control with disturbance invariant sets. , 2010, , .		11
97	On time-triggered and event-based control of integrator systems over a shared communication system. Mathematics of Control, Signals, and Systems, 2013, 25, 517-557.	2.3	11
98	An inverse problem of tomographic type in population dynamics. , 2014, , .		11
99	Min-max economic model predictive control approaches with guaranteed performance. , 2016, , .		11
100	Cooperative Estimation and Robust Synchronization of Heterogeneous Multiagent Systems With Coupled Measurements. IEEE Transactions on Control of Network Systems, 2018, 5, 1597-1607.	3.7	11
101	Economic model predictive control for snake robot locomotion. , 2019, , .		11
102	Linear Tracking MPC for Nonlinear Systemsâ€”Part I: The Model-Based Case. IEEE Transactions on Automatic Control, 2022, 67, 4390-4405.	5.7	11
103	Computation of the posterior entropy in a Bayesian framework for parameter estimation in biological networks. , 2010, , .		10
104	A distributed simplex algorithm and the multi-agent assignment problem. , 2011, , .		10
105	Network clustering: A dynamical systems and saddle-point perspective. , 2011, , .		10
106	Control over erasure channels: stochastic stability and performance of packetized unconstrained model predictive control. International Journal of Robust and Nonlinear Control, 2013, 23, 1151-1167.	3.7	10
107	Stabilizing linear model predictive control: On the enlargement of the terminal set. , 2013, , .		10
108	Dynamic Pricing Control for Constrained Distribution Networks With Storage. IEEE Transactions on Control of Network Systems, 2015, 2, 88-97.	3.7	10

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109	Stabilizing model predictive control: On the enlargement of the terminal set. International Journal of Robust and Nonlinear Control, 2015, 25, 2646-2670.	3.7	10
110	Periodic reference tracking for nonlinear systems via model predictive control. , 2016, , .		10
111	Compensating Drift Vector Fields With Gradient Vector Fields for Asymptotic Submanifold Stabilization. IEEE Transactions on Automatic Control, 2016, 61, 388-399.	5.7	10
112	Indefinite Linear Quadratic Optimal Control: Strict Dissipativity and Turnpike Properties. , 2018, 2, 399-404.		10
113	Predictive Control Over a Dynamical Token Bucket Network. , 2019, 3, 859-864.		10
114	Sampling Strategies for Data-Driven Inference of Input-Output System Properties. IEEE Transactions on Automatic Control, 2021, 66, 1144-1159.	5.7	10
115	Model Predictive Control for Flexible Job Shop Scheduling in Industry 4.0. Applied Sciences (Switzerland), 2021, 11, 8145.	2.5	10
116	Model predictive control of constrained nonlinear time-delay systems. , 2009, , .		9
117	Linear Weakly Hard Real-Time Control Systems: Time- and Event-Triggered Stabilization. IEEE Transactions on Automatic Control, 2021, 66, 1932-1939.	5.7	9
118	Model-Free Practical Cooperative Control for Diffusively Coupled Systems. IEEE Transactions on Automatic Control, 2022, 67, 754-766.	5.7	9
119	Model Predictive Control for Linear Uncertain Systems Using Integral Quadratic Constraints. IEEE Transactions on Automatic Control, 2023, 68, 355-368.	5.7	9
120	A robust nonlinear controller for nontrivial quadrotor maneuvers: Approach and verification. , 2015, , .		8
121	Performance oriented triggering mechanisms with guaranteed traffic characterization for linear discrete-time systems. , 2018, , .		8
122	Dual Adaptive MPC for output tracking of linear systems. , 2019, , .		8
123	Dynamic uncertainties in model predictive control: guaranteed stability for constrained linear systems. , 2020, , .		8
124	Data-Driven Analysis and Controller Design for Discrete-Time Systems Under Aperiodic Sampling. IEEE Transactions on Automatic Control, 2023, 68, 3210-3225.	5.7	8
125	Locally constrained decision making via two-stage distributed simplex. , 2011, , .		7
126	A solution for a class of output regulation problems on $SO(n)$. , 2012, , .		7

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127	Output Regulation for Control Systems on \mathbb{R}^n : A Separation Principle Based Approach. IEEE Transactions on Automatic Control, 2014, 59, 3057-3062.	5.7	7
128	On the ensemble observability problem for nonlinear systems. , 2015, , .		7
129	Norm-Controllability of Nonlinear Systems. IEEE Transactions on Automatic Control, 2015, 60, 1825-1840.	5.7	7
130	Exponentially fast distributed coordination for nonsmooth convex optimization. , 2016, , .		7
131	A tube-based approach to nonlinear explicit MPC. , 2016, , .		7
132	Analysis of primitive genetic interactions for the design of a genetic signal differentiator. Synthetic Biology, 2019, 4, 2015.	2.2	7
133	Nonlinear Dynamic Periodic Event-Triggered Control with Robustness to Packet Loss Based on Non-Monotonic Lyapunov Functions. , 2019, , .		7
134	Constrained Nonlinear Output Regulation Using Model Predictive Control. IEEE Transactions on Automatic Control, 2022, 67, 2419-2434.	5.7	7
135	A Nonlinear MPC Scheme for Output Tracking Without Terminal Ingredients. IEEE Transactions on Automatic Control, 2023, 68, 2368-2375.	5.7	7
136	Fault Diagnosis with Structured Augmented State Models: Modeling, Analysis, and Design. , 2006, , .		6
137	Calculating the terminal region of NMPC for Lure systems via LMIs. , 2008, , .		6
138	A Dissipation Inequality for the Minimum Phase Property. IEEE Transactions on Automatic Control, 2008, 53, 821-826.	5.7	6
139	Estimating the fates of the control packets for Networked Control Systems with loss of control and measurement packets. , 2009, , .		6
140	On consensus among identical linear systems using input-decoupled functional observers. , 2010, , .		6
141	General design parameters of model predictive control for nonlinear time-delay systems. , 2010, , .		6
142	The performance of event-based control for scalar systems with packet losses. , 2012, , .		6
143	Is it worth to retransmit lost packets in Networked Control Systems?. , 2012, , .		6
144	Obtaining and employing state dependent parametrizations of prespecified complexity in constrained MPC. , 2013, , .		6

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145	Scenario-based Stochastic MPC with guaranteed recursive feasibility. , 2015, , .		6
146	On the state estimation problem for discrete ensembles from discrete-time output snapshots. , 2015, , .		6
147	Fekete Points, Formation Control, and the Balancing Problem. IEEE Transactions on Automatic Control, 2017, 62, 5069-5081.	5.7	6
148	Integration of Communication Networks and Control Systems Using a Slotted Transmission Classification Model. , 2019, , .		6
149	Sample-based modeling reveals bidirectional interplay between cell cycle progression and extrinsic apoptosis. PLoS Computational Biology, 2020, 16, e1007812.	3.2	6
150	Training Robust Neural Networks Using Lipschitz Bounds. , 2021, , .		6
151	Rollout scheduling and control for disturbed systems via tube MPC. , 2020, , .		6
152	Nonlinear model predictive control for periodic systems using LMIs. , 2009, , .		6
153	Model Predictive Control. International Journal of Robust and Nonlinear Control, 2008, 18, 799-799.	3.7	5
154	Phase synchronization through entrainment by a consensus input. , 2010, , .		5
155	An explicit solution to constrained stabilization via polytopic tubes. , 2013, , .		5
156	Clock synchronization over directed graphs. , 2013, , .		5
157	Selective averaging with application to phase reduction and neural control. Nonlinear Theory and Its Applications IEICE, 2014, 5, 424-435.	0.6	5
158	A distributed economic MPC scheme for coordination of self-interested systems. , 2016, , .		5
159	Enhancing output feedback MPC for linear discrete-time systems with set-valued moving horizon estimation. , 2016, , .		5
160	A resource dependent protein synthesis model for evaluating synthetic circuits. Journal of Theoretical Biology, 2017, 420, 267-278.	1.7	5
161	Optimal Experiment Design and Leveraging Competition for Shared Resources in Cell-Free Extracts. , 2018, , .		5
162	Nonlinearity measures for data-driven system analysis and control. , 2019, , .		5

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163	Data-driven inference of passivity properties via Gaussian process optimization. , 2019, , .		5
164	Dissipativity and Economic Model Predictive Control for Optimal Set Operation. , 2019, , .		5
165	Reconstructing temporal and spatial dynamics from single-cell pseudotime using prior knowledge of real scale cell densities. Scientific Reports, 2020, 10, 3619.	3.3	5
166	Multi-agent speed consensus via delayed position feedback with application to Kuramoto oscillators. , 2009, , .		5
167	Simulation of Piezoelectric Tube Actuators by Reduced Finite Element Models for Controller Design. Proceedings of the American Control Conference, 2007, , .	0.0	4
168	Ensuring Task-Independent Safety for Multi-Agent Systems by Feedback. Proceedings of the American Control Conference, 2007, , .	0.0	4
169	Almost sure stability and transient behavior of stochastic nonlinear jump systems motivated by networked control systems. , 2007, , .		4
170	Model predictive control of uncertain continuous-time systems with piecewise constant control input: A convex approach. , 2008, , .		4
171	Predictive control for lure systems subject to constraints using LMIs. , 2009, , .		4
172	Optimal control over unreliable networks with uncertain loss rates. , 2010, , .		4
173	Unconstrained model predictive control and suboptimality estimates for nonlinear time-delay systems. , 2011, , .		4
174	Output synchronization of linear parameter-varying systems via dynamic couplings. , 2012, , .		4
175	Distributed robust optimization via Cutting-Plane Consensus. , 2012, , .		4
176	Uncertainty-aware visual analysis of biochemical reaction networks. , 2012, , .		4
177	A projected SQP method for nonlinear optimal control with quadratic convergence. , 2013, , .		4
178	A linear reformulation of Boolean optimization problems and structure identification of gene regulation networks. , 2013, , .		4
179	Unconstrained nonlinear MPC: Performance estimates for sampled-data systems with zero order hold. , 2015, , .		4
180	Synchronization of diffusively coupled systems on compact Riemannian manifolds in the presence of drift. Systems and Control Letters, 2015, 76, 19-27.	2.3	4

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181	Linear systems with quadratic outputs. , 2017, , .		4
182	Containability With Event-Based Sampling for Scalar Systems With Time-Varying Delay and Uncertainty. , 2018, 2, 725-730.		4
183	A simple framework for nonlinear robust output-feedback MPC. , 2019, , .		4
184	Scheduling and control over networks using MPC with time-varying terminal ingredients. , 2020, , .		4
185	Dissipativity verification with guarantees for polynomial systems from noisy input-state data. , 2021, , .		4
186	Distributed Model Predictive Control for Consensus of Constrained Heterogeneous Linear Systems. , 2020, , .		4
187	Resource-Aware Asynchronous Multi-Agent Coordination via Self-Triggered MPC. , 2020, , .		4
188	Guaranteed Closed-Loop Learning in Model Predictive Control. IEEE Transactions on Automatic Control, 2023, 68, 991-1006.	5.7	4
189	Stability of Networked Systems with Multiple Delays Using Linear Programming. , 2007, , .		3
190	Fault diagnosis of nonlinear systems using structured augmented state models. International Journal of Automation and Computing, 2007, 4, 141-148.	4.5	3
191	A relaxation of Lyapunov conditions and controller synthesis for discrete-time periodic systems. , 2010, , .		3
192	Consensus in bistable and multistable multi-agent systems. , 2010, , .		3
193	Stochastic stability and performance estimates of packetized unconstrained model predictive control for networked control systems. , 2011, , .		3
194	Offline NMPC for continuous-time systems using sum of squares. , 2011, , .		3
195	Bifurcation search via feedback loop breaking in biochemical signaling pathways with time delay. Asian Journal of Control, 2011, 13, 691-700.	3.0	3
196	Exact convex formulations of network-oriented optimal operator placement. , 2012, , .		3
197	Relaxed conditions for norm-controllability of nonlinear systems. , 2012, , .		3
198	Network-level dynamics of diffusively coupled cells. , 2012, , .		3

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199	Practical cluster synchronization of heterogeneous systems on graphs with acyclic topology. , 2013, , .		3
200	Retransmitting lost measurements to improve remote estimation. , 2013, , .		3
201	Distributed filter design for cooperative ho-type estimation. , 2015, , .		3
202	Consensus algorithm-based approach to fundamental modeling of water pipe networks. <i>AIChE Journal</i> , 2017, 63, 3860-3870.	3.6	3
203	Controller and Triggering Mechanism Co-design for Control Over Time-Slotted Networks. <i>IEEE Transactions on Control of Network Systems</i> , 2021, 8, 222-232.	3.7	3
204	Multi-agent system consensus in packet-switched networks. , 2007, , .		3
205	Economic model predictive control with self-tuning terminal weight. , 2013, , .		3
206	A controller design for Networked Control Systems with random delays via the Jump Linear System approach, which reduces the effects of the delay. , 2009, , .		3
207	Model-Based Nonlinear Periodic Event-Triggered Control for Continuous-Time Systems with Sampled-Data Prediction. , 2020, , .		3
208	Improved stability conditions for systems under aperiodic sampling: model- and data-based analysis. , 2021, , .		3
209	Robust l_1 Performance Analysis in face of Parametric Uncertainties. , 2006, , .		2
210	Extensions on a certainty-equivalence feedback design with a class of feedbacks which guarantee ISS. , 2008, , .		2
211	Robustification and optimization of a Kalman filter with measurement loss using linear precoding. , 2009, , .		2
212	A set-valued filter for discrete time polynomial systems using sum of squares programming. , 2009, , .		2
213	On norm-controllability of nonlinear systems. , 2011, , .		2
214	Design of sparse relative sensing networks. , 2012, , .		2
215	Cycles and sparse design of consensus networks. , 2012, , .		2
216	Output regulation for attitude control: A global approach. , 2013, , .		2

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217	Economic model predictive control with transient average constraints. , 2013, , .		2
218	Leaderless synchronization of linear multi-agent systems under directed switching topologies: An invariance approach. , 2013, , .		2
219	A non-monotonic approach to periodic event-triggered control with packet loss. , 2016, , .		2
220	Stabilizing stochastic MPC without terminal constraints. , 2017, , .		2
221	Extremum seeking for optimal enzyme production under cellular fitness constraints. , 2019, , .		2
222	Approximate dissipativity and performance bounds for interconnected systems. , 2019, , .		2
223	Iterative data-driven inference of nonlinearity measures via successive graph approximation. , 2020, , .		2
224	Dynamic self-triggered control for nonlinear systems based on hybrid Lyapunov functions. , 2021, , .		2
225	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation. , 2006, , .		1
226	A nonlinear synchronization scheme for polynomial systems. Proceedings of the American Control Conference, 2007, , .	0.0	1
227	ℓ_1 -gain model reduction for discrete-time systems via LMLs. , 2009, , .		1
228	MPC with one free control action for constrained LPV systems. , 2010, , .		1
229	Generic bifurcations in the dynamics of biochemical networks. , 2010, , .		1
230	ℓ_1 -gain controller order reduction for discrete-time systems. , 2010, , .		1
231	A linear multi-agent systems approach to diffusively coupled piecewise affine systems: Delay robustness. , 2011, , .		1
232	Combinatorial insights and robustness analysis for clustering in dynamical networks. , 2012, , .		1
233	Multistability equivalence between gene regulatory networks of different dimensionality. , 2013, , .		1
234	From non-cooperative to cooperative distributed MPC: A simplicial approximation perspective. , 2013, , .		1

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235	Robust economic model predictive control with linear average constraints. , 2014, , .		1
236	On the moment dynamics of discrete measures. , 2016, , .		1
237	Final-state constrained optimal control via a projection operator approach. , 2016, , .		1
238	Moment Dynamics of Zirconia Particle Formation for Optimizing Particle Size Distribution. Nanomaterials, 2019, 9, 333.	4.1	1
239	Graph topology and subsystem centrality in approximately dissipative system interconnections. , 2019, , .		1
240	Editorial to the special issue “Adaptive and learning-based model predictive control”. International Journal of Robust and Nonlinear Control, 2021, 31, 8676-8677.	3.7	1
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242	Exploiting Information for Decentralized Periodic Event-Triggered Control. , 2020, , .		1
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