

# Florian Brunner

## List of Publications by Citations

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225  
papers

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30  
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44  
g-index

267  
ext. papers

3,853  
ext. citations

4.1  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
225	Consensus in Multi-Agent Systems With Coupling Delays and Switching Topology. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 2976-2982	5.9	142
224	On topology and dynamics of consensus among linear high-order agents. <i>International Journal of Systems Science</i> , <b>2011</b> , 42, 1831-1842	2.3	93
223	Delay Robustness in Non-Identical Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2012</b> , 57, 1597-1603	5.9	76
222	Robust Consensus Controller Design for Nonlinear Relative Degree Two Multi-Agent Systems With Communication Constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 145-151	5.9	76
221	Cooperative control of dynamically decoupled systems via distributed model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2012</b> , 22, 1376-1397	3.6	75
220	Robust self-triggered MPC for constrained linear systems: A tube-based approach. <i>Automatica</i> , <b>2016</b> , 72, 73-83	5.7	69
219	Learning an Approximate Model Predictive Controller With Guarantees <b>2018</b> , 2, 543-548		68
218	Bistable Biological Systems: A Characterization Through Local Compact Input-to-State Stability. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 87-100	5.9	66
217	Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization. <i>Automatica</i> , <b>2016</b> , 68, 132-139	5.7	64
216	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 1702-1717	5.9	62
215	Economic model predictive control with self-tuning terminal cost. <i>European Journal of Control</i> , <b>2013</b> , 19, 408-416	2.5	59
214	Duality and network theory in passivity-based cooperative control. <i>Automatica</i> , <b>2014</b> , 50, 2051-2061	5.7	57
213	Nonlinear model predictive control for path following problems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2015</b> , 25, 1168-1182	3.6	51
212	Consensus reaching in multi-agent packet-switched networks with non-linear coupling. <i>International Journal of Control</i> , <b>2009</b> , 82, 953-969	1.5	47
211	Output feedback stabilization of constrained systems with nonlinear predictive control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2003</b> , 13, 211-227	3.6	46
210	Decentralized state feedback control for interconnected systems with application to power systems. <i>Journal of Process Control</i> , <b>2014</b> , 24, 379-388	3.9	45
209	Observer with sample-and-hold updating for Lipschitz nonlinear systems with nonuniformly sampled measurements <b>2008</b> ,		45

208	A Polyhedral Approximation Framework for Convex and Robust Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 384-395	5.9	44
207	On Synchronous Steady States and Internal Models of Diffusively Coupled Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 2591-2602	5.9	43
206	Robust and optimal predictive control of the COVID-19 outbreak. <i>Annual Reviews in Control</i> , <b>2021</b> , 51, 525-539	10.3	43
205	Robust Event-Triggered MPC With Guaranteed Asymptotic Bound and Average Sampling Rate. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5694-5709	5.9	42
204	Model predictive control of constrained LPV systems. <i>International Journal of Control</i> , <b>2012</b> , 85, 671-683	1.5	39
203	Design of structured dynamic output-feedback controllers for interconnected systems. <i>International Journal of Control</i> , <b>2011</b> , 84, 2081-2091	1.5	39
202	A Computationally Efficient Robust Model Predictive Control Framework for Uncertain Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 794-801	5.9	39
201	One-Shot Verification of Dissipativity Properties From Input-Output Data <b>2019</b> , 3, 709-714		33
200	Delay-dependent rendezvous and flocking of large scale multi-agent systems with communication delays <b>2008</b> ,		33
199	Motivation and Learning Progress Through Educational Games. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 3141-3144	8.9	33
198	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 254-269	5.9	33
197	A Distributed Control Approach to Formation Balancing and Maneuvering of Multiple Multirotor UAVs. <i>IEEE Transactions on Robotics</i> , <b>2018</b> , 34, 870-882	6.5	32
196	Observers with impulsive dynamical behavior for linear and nonlinear continuous-time systems <b>2007</b> ,		31
195	Safe and Fast Tracking on a Robot Manipulator: Robust MPC and Neural Network Control. <i>IEEE Robotics and Automation Letters</i> , <b>2020</b> , 5, 3050-3057	4.2	30
194	Robust data-driven state-feedback design <b>2020</b> ,		30
193	On convergence of averagely constrained economic MPC and necessity of dissipativity for optimal steady-state operation <b>2013</b> ,		29
192	Ensemble Observability of Linear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 1452-1465	5.9	28
191	Discrete-time Incremental ISS: A framework for Robust NMPC <b>2013</b> ,		24

190	A trajectory-based framework for data-driven system analysis and control <b>2020</b> ,		24
189	Stabilization of linear systems with distributed input delay <b>2010</b> ,		22
188	Feedback design for multi-agent systems: A saddle point approach <b>2012</b> ,		22
187	A Nonlinear Model Predictive Control Framework Using Reference Generic Terminal Ingredients. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3576-3583	5.9	22
186	Some problems arising in controller design from big data via input-output methods <b>2016</b> ,		22
185	Stochastic thresholds in event-triggered control: A consistent policy for quadratic control. <i>Automatica</i> , <b>2018</b> , 89, 376-381	5.7	21
184	An internal model principle for synchronization <b>2009</b> ,		21
183	Stability Analysis of Time-Delay Systems With Incommensurate Delays Using Positive Polynomials. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 1019-1024	5.9	21
182	A novel constraint tightening approach for nonlinear robust model predictive control <b>2018</b> ,		20
181	ℓ <sub>1</sub> -Optimal Control of Large Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 1079-1089	4.8	20
180	Hierarchical Clustering of Dynamical Networks Using a Saddle-Point Analysis. <i>IEEE Transactions on Automatic Control</i> , <b>2013</b> , 58, 113-124	5.9	20
179	A Finite Time Unknown Input Observer For Linear Systems <b>2006</b> ,		18
178	Collision avoidance for uncertain nonlinear systems with moving obstacles using robust Model Predictive Control <b>2019</b> ,		18
177	Event-Based Vehicle Coordination Using Nonlinear Unidirectional Controllers. <i>IEEE Transactions on Control of Network Systems</i> , <b>2018</b> , 5, 1575-1584	4	18
176	Nonlinear model predictive control of a four tank system: An experimental stability study <b>2006</b> ,		17
175	Event-triggered and self-triggered control for linear systems based on reachable sets. <i>Automatica</i> , <b>2019</b> , 101, 15-26	5.7	17
174	Cooperative control of linear parameter-varying systems <b>2012</b> ,		16
173	Results Towards Identifiability Properties of Biochemical Reaction Networks <b>2006</b> ,		16

172	Robustness of steady-state optimality in economic model predictive control <b>2012</b> ,		15
171	Generalized Nyquist consensus condition for high-order linear multi-agent systems with communication delays <b>2009</b> ,		15
170	Towards Networked Control Systems with guaranteed stability: Using weakly hard real-time constraints to model the loss process <b>2015</b> ,		14
169	On System Gains, Nonlinearity Measures, and Linear Models for Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 62-78	5.9	14
168	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 3339-3353	5.9	13
167	Moving horizon H <sub>∞</sub> control of variable speed wind turbines with actuator saturation. <i>IET Renewable Power Generation</i> , <b>2014</b> , 8, 498-508	2.9	13
166	Stabilization of networked control systems with weakly hard real-time dropout description <b>2017</b> ,		13
165	On the Necessity of Diffusive Couplings in Linear Synchronization Problems With Quadratic Cost. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 3029-3034	5.9	13
164	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems <b>2011</b> ,		13
163	On the zeros of consensus networks <b>2011</b> ,		13
162	Topology-dependent stability of a network of dynamical systems with communication delays <b>2007</b> ,		13
161	Enhancing Output-Feedback MPC With Set-Valued Moving Horizon Estimation. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 2976-2986	5.9	12
160	Output synchronization of linear multi-agent systems under constant disturbances via distributed integral action <b>2015</b> ,		12
159	Searching bifurcations in high-dimensional parameter space via a feedback loop breaking approach. <i>International Journal of Systems Science</i> , <b>2009</b> , 40, 769-782	2.3	12
158	Stability Analysis for Time-Delay Systems using Rekasius@Substitution and Sum of Squares <b>2006</b> ,		12
157	Some Ideas on Sampling Strategies for Data-Driven Inference of Passivity Properties for MIMO Systems <b>2018</b> ,		11
156	Nonlinear model predictive control of a four tank system: An experimental stability study		11
155	On Periodic Dissipativity Notions in Economic Model Predictive Control <b>2018</b> , 2, 501-506		10

154	An inverse problem of tomographic type in population dynamics <b>2014</b> ,		10
153	On the optimal sending rate for Networked Control Systems with a shared communication medium <b>2011</b> ,		10
152	Sensitization of glioblastoma cells to TRAIL-induced apoptosis by IAP- and Bcl-2 antagonism. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 1112	9.8	10
151	Cooperative Estimation and Robust Synchronization of Heterogeneous Multiagent Systems With Coupled Measurements. <i>IEEE Transactions on Control of Network Systems</i> , <b>2018</b> , 5, 1597-1607	4	9
150	On time-triggered and event-based control of integrator systems over a shared communication system. <i>Mathematics of Control, Signals, and Systems</i> , <b>2013</b> , 25, 517-557	1.3	9
149	Semi-explicit MPC based on subspace clustering. <i>Automatica</i> , <b>2017</b> , 83, 309-316	5.7	9
148	Sampled Observability and State Estimation of Linear Discrete Ensembles. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 2406-2418	5.9	9
147	Dynamic Pricing Control for Constrained Distribution Networks With Storage. <i>IEEE Transactions on Control of Network Systems</i> , <b>2015</b> , 2, 88-97	4	9
146	Predictive control for polynomial systems subject to constraints using sum of squares <b>2010</b> ,		9
145	A constructive approach to Synchronization using relative information <b>2012</b> ,		9
144	Predictive Control Over a Dynamical Token Bucket Network <b>2019</b> , 3, 859-864		8
143	Stabilizing linear model predictive control: On the enlargement of the terminal set <b>2013</b> ,		8
142	Min-max economic model predictive control approaches with guaranteed performance <b>2016</b> ,		8
141	Stabilizing model predictive control: On the enlargement of the terminal set. <i>International Journal of Robust and Nonlinear Control</i> , <b>2015</b> , 25, 2646-2670	3.6	7
140	Compensating Drift Vector Fields With Gradient Vector Fields for Asymptotic Submanifold Stabilization. <i>IEEE Transactions on Automatic Control</i> , <b>2016</b> , 61, 388-399	5.9	7
139	Output Regulation for Control Systems on $\mathbb{S}^n$ : A Separation Principle Based Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2014</b> , 59, 3057-3062	5.9	7
138	Control over erasure channels: stochastic stability and performance of packetized unconstrained model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2013</b> , 23, 1151-1167	3.6	7
137	A distributed simplex algorithm and the multi-agent assignment problem <b>2011</b> ,		7

136	Network clustering: A dynamical systems and saddle-point perspective <b>2011</b> ,		7
135	Robust Constraint Satisfaction in Data-Driven MPC <b>2020</b> ,		7
134	A robust adaptive model predictive control framework for nonlinear uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> ,	3.6	7
133	Periodic reference tracking for nonlinear systems via model predictive control <b>2016</b> ,		7
132	Linear robust adaptive model predictive control: Computational complexity and conservatism <b>2019</b> ,		7
131	Performance oriented triggering mechanisms with guaranteed traffic characterization for linear discrete-time systems <b>2018</b> ,		7
130	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. <i>PLoS ONE</i> , <b>2018</b> , 13, e0198203	3.7	7
129	Norm-Controllability of Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2015</b> , 60, 1825-1840	5.9	6
128	Obtaining and employing state dependent parametrizations of prespecified complexity in constrained MPC <b>2013</b> ,		6
127	A robust nonlinear controller for nontrivial quadrotor maneuvers: Approach and verification <b>2015</b> ,		6
126	Computation of the posterior entropy in a Bayesian framework for parameter estimation in biological networks <b>2010</b> ,		6
125	Locally constrained decision making via two-stage distributed simplex <b>2011</b> ,		6
124	The performance of event-based control for scalar systems with packet losses <b>2012</b> ,		6
123	A solution for a class of output regulation problems on $SO(n)$ <b>2012</b> ,		6
122	Exponentially fast distributed coordination for nonsmooth convex optimization <b>2016</b> ,		6
121	Economic model predictive control for snake robot locomotion <b>2019</b> ,		6
120	A resource dependent protein synthesis model for evaluating synthetic circuits. <i>Journal of Theoretical Biology</i> , <b>2017</b> , 420, 267-278	2.3	5
119	Integration of Communication Networks and Control Systems Using a Slotted Transmission Classification Model <b>2019</b> ,		5

118	Selective averaging with application to phase reduction and neural control. <i>Nonlinear Theory and Its Applications IEICE</i> , <b>2014</b> , 5, 424-435	0.6	5
117	On the ensemble observability problem for nonlinear systems <b>2015</b> ,		5
116	On the state estimation problem for discrete ensembles from discrete-time output snapshots <b>2015</b> ,		5
115	An explicit solution to constrained stabilization via polytopic tubes <b>2013</b> ,		5
114	Clock synchronization over directed graphs <b>2013</b> ,		5
113	General design parameters of model predictive control for nonlinear time-delay systems <b>2010</b> ,		5
112	Kinetic perturbations as robustness analysis tool for biochemical reaction networks <b>2009</b> ,		5
111	Calculating the terminal region of NMPC for Lure systems via LMIs <b>2008</b> ,		5
110	A Dissipation Inequality for the Minimum Phase Property. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 821-826	5.9	5
109	Certainty-Equivalence Feedback Design With Polynomial-Type Feedbacks Which Guarantee ISS. <i>IEEE Transactions on Automatic Control</i> , <b>2007</b> , 52, 716-720	5.9	5
108	Verifying dissipativity properties from noise-corrupted input-state data <b>2020</b> ,		5
107	Training Robust Neural Networks Using Lipschitz Bounds <b>2021</b> ,		5
106	A distributed economic MPC scheme for coordination of self-interested systems <b>2016</b> ,		5
105	Data-driven inference of passivity properties via Gaussian process optimization <b>2019</b> ,		5
104	Stochastic model predictive control without terminal constraints. <i>International Journal of Robust and Nonlinear Control</i> , <b>2019</b> , 29, 4987-5001	3.6	5
103	Data-Based System Analysis and Control of Flat Nonlinear Systems <b>2021</b> ,		5
102	A linear reformulation of Boolean optimization problems and structure identification of gene regulation networks <b>2013</b> ,		4
101	Linear systems with quadratic outputs <b>2017</b> ,		4



100	Scenario-based Stochastic MPC with guaranteed recursive feasibility <b>2015</b> ,		4
99	Synchronization of diffusively coupled systems on compact Riemannian manifolds in the presence of drift. <i>Systems and Control Letters</i> , <b>2015</b> , 76, 19-27	2.4	4
98	Output synchronization of linear parameter-varying systems via dynamic couplings <b>2012</b> ,		4
97	Is it worth to retransmit lost packets in Networked Control Systems? <b>2012</b> ,		4
96	Phase synchronization through entrainment by a consensus input <b>2010</b> ,		4
95	On consensus among identical linear systems using input-decoupled functional observers <b>2010</b> ,		4
94	Model predictive control of constrained nonlinear time-delay systems <b>2009</b> ,		4
93	Estimating the fates of the control packets for Networked Control Systems with loss of control and measurement packets <b>2009</b> ,		4
92	Model predictive control of uncertain continuous-time systems with piecewise constant control input: A convex approach <b>2008</b> ,		4
91	Predictive control for lure systems subject to constraints using LMIs <b>2009</b> ,		4
90	Fault Diagnosis with Structured Augmented State Models: Modeling, Analysis, and Design <b>2006</b> ,		4
89	An impulsive observer that estimates the exact state of a linear continuous-time system in predetermined finite time <b>2007</b> ,		4
88	Nonlinear model predictive control for periodic systems using LMIs <b>2009</b> ,		4
87	A tube-based approach to nonlinear explicit MPC <b>2016</b> ,		4
86	Dual Adaptive MPC for output tracking of linear systems <b>2019</b> ,		4
85	Sampling Strategies for Data-Driven Inference of InputOutput System Properties. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 1144-1159	5.9	4
84	Linear Weakly Hard Real-Time Control Systems: Time- and Event-Triggered Stabilization. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 1932-1939	5.9	4
83	Indefinite Linear Quadratic Optimal Control: Strict Dissipativity and Turnpike Properties <b>2018</b> , 2, 399-404		4

82	Model-Free Practical Cooperative Control for Diffusively Coupled Systems. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	4
81	Fekete Points, Formation Control, and the Balancing Problem. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5069-5081	5.9	3
80	Augmenting MPC Schemes With Active Learning: Intuitive Tuning and Guaranteed Performance <b>2020</b> , 4, 713-718		3
79	Dynamic Resource Allocation to Control Epidemic Outbreaks A Model Predictive Control Approach <b>2018</b> ,		3
78	Analysis of primitive genetic interactions for the design of a genetic signal differentiator. <i>Synthetic Biology</i> , <b>2019</b> , 4, ysz015	3.3	3
77	A projected SQP method for nonlinear optimal control with quadratic convergence <b>2013</b> ,		3
76	Practical cluster synchronization of heterogeneous systems on graphs with acyclic topology <b>2013</b> ,		3
75	Retransmitting lost measurements to improve remote estimation <b>2013</b> ,		3
74	Bifurcation search via feedback loop breaking in biochemical signaling pathways with time delay. <i>Asian Journal of Control</i> , <b>2011</b> , 13, 691-700	1.7	3
73	Optimal control over unreliable networks with uncertain loss rates <b>2010</b> ,		3
72	Robust model predictive control with disturbance invariant sets <b>2010</b> ,		3
71	A relaxation of Lyapunov conditions and controller synthesis for discrete-time periodic systems <b>2010</b> ,		3
70	Consensus in bistable and multistable multi-agent systems <b>2010</b> ,		3
69	Unconstrained model predictive control and suboptimality estimates for nonlinear time-delay systems <b>2011</b> ,		3
68	Offline NMPC for continuous-time systems using sum of squares <b>2011</b> ,		3
67	Simulation of Piezoelectric Tube Actuators by Reduced Finite Element Models for Controller Design. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
66	Ensuring Task-Independent Safety for Multi-Agent Systems by Feedback. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	3
65	Stability of Networked Systems with Multiple Delays Using Linear Programming <b>2007</b> ,		3

64	Rollout scheduling and control for disturbed systems via tube MPC* <b>2020</b> ,		3
63	Multi-agent speed consensus via delayed position feedback with application to Kuramoto oscillators <b>2009</b> ,		3
62	Scheduling and control over networks using MPC with time-varying terminal ingredients <b>2020</b> ,		3
61	Dissipativity and Economic Model Predictive Control for Optimal Set Operation <b>2019</b> ,		3
60	Optimal Experiment Design and Leveraging Competition for Shared Resources in Cell-Free Extracts <b>2018</b> ,		3
59	Containability With Event-Based Sampling for Scalar Systems With Time-Varying Delay and Uncertainty <b>2018</b> , 2, 725-730		3
58	Model predictive control for autonomous ground vehicles: a review. <i>Autonomous Intelligent Systems</i> , <b>2021</b> , 1, 1		3
57	Dissipativity Verification With Guarantees for Polynomial Systems From Noisy Input-State Data <b>2021</b> , 5, 1399-1404		3
56	Training Robust Neural Networks Using Lipschitz Bounds <b>2022</b> , 6, 121-126		3
55	Linear tracking MPC for nonlinear systems Part II: The data-driven case. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	3
54	Consensus algorithm-based approach to fundamental modeling of water pipe networks. <i>AICHE Journal</i> , <b>2017</b> , 63, 3860-3870	3.6	2
53	A simple framework for nonlinear robust output-feedback MPC <b>2019</b> ,		2
52	Unconstrained nonlinear MPC: Performance estimates for sampled-data systems with zero order hold <b>2015</b> ,		2
51	Distributed filter design for cooperative ho-type estimation <b>2015</b> ,		2
50	Distributed robust optimization via Cutting-Plane Consensus <b>2012</b> ,		2
49	Uncertainty-aware visual analysis of biochemical reaction networks <b>2012</b> ,		2
48	Output regulation for attitude control: A global approach <b>2013</b> ,		2
47	Economic model predictive control with transient average constraints <b>2013</b> ,		2

46	Stochastic stability and performance estimates of packetized unconstrained model predictive control for networked control systems <b>2011</b> ,		2
45	Robustification and optimization of a Kalman filter with measurement loss using linear precoding <b>2009</b> ,		2
44	Network-level dynamics of diffusively coupled cells <b>2012</b> ,		2
43	Fault diagnosis of nonlinear systems using structured augmented state models. <i>International Journal of Automation and Computing</i> , <b>2007</b> , 4, 141-148	3.5	2
42	Almost sure stability and transient behavior of stochastic nonlinear jump systems motivated by networked control systems <b>2007</b> ,		2
41	Distributed Model Predictive Control for Consensus of Constrained Heterogeneous Linear Systems <b>2020</b> ,		2
40	Multi-agent system consensus in packet-switched networks <b>2007</b> ,		2
39	Economic model predictive control with self-tuning terminal weight <b>2013</b> ,		2
38	Approximate dissipativity and performance bounds for interconnected systems <b>2019</b> ,		2
37	A non-monotonic approach to periodic event-triggered control with packet loss <b>2016</b> ,		2
36	Nonlinearity measures for data-driven system analysis and control <b>2019</b> ,		2
35	Nonlinear Dynamic Periodic Event-Triggered Control with Robustness to Packet Loss Based on Non-Monotonic Lyapunov Functions <b>2019</b> ,		2
34	Constrained nonlinear output regulation using model predictive control. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	2
33	Model Predictive Control for Flexible Job Shop Scheduling in Industry 4.0. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8145	2.6	2
32	Robust stability analysis of a simple data-driven model predictive control approach. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	2
31	Moment Dynamics of Zirconia Particle Formation for Optimizing Particle Size Distribution. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	1
30	Sample-based modeling reveals bidirectional interplay between cell cycle progression and extrinsic apoptosis. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1007812	5	1
29	Reconstructing temporal and spatial dynamics from single-cell pseudotime using prior knowledge of real scale cell densities. <i>Scientific Reports</i> , <b>2020</b> , 10, 3619	4.9	1

28	Final-state constrained optimal control via a projection operator approach <b>2016,</b>		1
27	Robust economic model predictive control with linear average constraints <b>2014,</b>		1
26	Stabilizing stochastic MPC without terminal constraints <b>2017,</b>		1
25	Combinatorial insights and robustness analysis for clustering in dynamical networks <b>2012,</b>		1
24	Design of sparse relative sensing networks <b>2012,</b>		1
23	Cycles and sparse design of consensus networks <b>2012,</b>		1
22	Multistability equivalence between gene regulatory networks of different dimensionality <b>2013,</b>		1
21	Generic bifurcations in the dynamics of biochemical networks <b>2010,</b>		1
20	A linear multi-agent systems approach to diffusively coupled piecewise affine systems: Delay robustness <b>2011,</b>		1
19	A set-valued filter for discrete time polynomial systems using sum of squares programming <b>2009,</b>		1
18	Exact convex formulations of network-oriented optimal operator placement <b>2012,</b>		1
17	Robust l1 Performance Analysis in face of Parametric Uncertainties <b>2006,</b>		1
16	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation <b>2006,</b>		1
15	Resource-Aware Asynchronous Multi-Agent Coordination via Self-Triggered MPC <b>2020,</b>		1
14	On the moment dynamics of discrete measures <b>2016,</b>		1
13	Controller and Triggering Mechanism Co-design for Control Over Time-Slotted Networks. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 8, 222-232	4	1
12	Linear tracking MPC for nonlinear systems Part I: The model-based case. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	1
11	Model predictive control for linear uncertain systems using integral quadratic constraints. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9	0

10	An InputOutput Framework for Submanifold Stabilization. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5170-5184	5.9
9	Multistability equivalence between gene regulatory networks of different dimensionality with application to a differentiation network. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 4148-4168	3.6
8	Nonlinear MPC: the Impact of Sampling on Closed Loop Stability. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2014</b> , 14, 911-912	0.2
7	Average Constraints in Robust Economic Model Predictive Control**The authors would like to 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.. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 44-49	0.7
6	The circuit-breaking algorithm for monotone systems. <i>Mathematical Biosciences</i> , <b>2017</b> , 284, 80-91	3.9
5	Predictive Control for Polynomial Systems Subject to State and Input Constraints. <i>Automatisierungstechnik</i> , <b>2011</b> , 59, 479-488	0.8
4	Selective Averaging with Application to Phase Reduction. <i>IEICE Proceeding Series</i> , <b>2014</b> , 2, 491-494	
3	Guaranteed closed-loop learning in Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9
2	Approximate dissipativity of cost-interconnected systems in distributed economic MPC. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9
1	A nonlinear MPC scheme for output tracking without terminal ingredients. <i>IEEE Transactions on Automatic Control</i> , <b>2022</b> , 1-1	5.9