

Florian Brunner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

225
papers

2,943
citations

30
h-index

44
g-index

267
ext. papers

3,853
ext. citations

4.1
avg, IF

6.09
L-index

#	Paper	IF	Citations
225	Training Robust Neural Networks Using Lipschitz Bounds 2022 , 6, 121-126		3
224	Robust stability analysis of a simple data-driven model predictive control approach. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	2
223	Linear tracking MPC for nonlinear systems Part I: The model-based case. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	1
222	Linear tracking MPC for nonlinear systems Part II: The data-driven case. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	3
221	Guaranteed closed-loop learning in Model Predictive Control. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	
220	Model predictive control for linear uncertain systems using integral quadratic constraints. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	0
219	Approximate dissipativity of cost-interconnected systems in distributed economic MPC. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	
218	A nonlinear MPC scheme for output tracking without terminal ingredients. <i>IEEE Transactions on Automatic Control</i> , 2022 , 1-1	5.9	
217	Training Robust Neural Networks Using Lipschitz Bounds 2021 ,		5
216	A Computationally Efficient Robust Model Predictive Control Framework for Uncertain Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 794-801	5.9	39
215	Sampling Strategies for Data-Driven Inference of Input/Output System Properties. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1144-1159	5.9	4
214	Linear Weakly Hard Real-Time Control Systems: Time- and Event-Triggered Stabilization. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1932-1939	5.9	4
213	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1702-1717	5.9	62
212	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	4	1
211	Robust and optimal predictive control of the COVID-19 outbreak. <i>Annual Reviews in Control</i> , 2021 , 51, 525-539	10.3	43
210	Constrained nonlinear output regulation using model predictive control. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
209	Model predictive control for autonomous ground vehicles: a review. <i>Autonomous Intelligent Systems</i> , 2021 , 1, 1		3

208	Model Predictive Control for Flexible Job Shop Scheduling in Industry 4.0. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8145	2.6	2
207	Dissipativity Verification With Guarantees for Polynomial Systems From Noisy Input-State Data 2021 , 5, 1399-1404		3
206	Model-Free Practical Cooperative Control for Diffusively Coupled Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	4
205	Data-Based System Analysis and Control of Flat Nonlinear Systems 2021 ,		5
204	Sample-based modeling reveals bidirectional interplay between cell cycle progression and extrinsic apoptosis. <i>PLoS Computational Biology</i> , 2020 , 16, e1007812	5	1
203	Augmenting MPC Schemes With Active Learning: Intuitive Tuning and Guaranteed Performance 2020 , 4, 713-718		3
202	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	4.2	30
201	Reconstructing temporal and spatial dynamics from single-cell pseudotime using prior knowledge of real scale cell densities. <i>Scientific Reports</i> , 2020 , 10, 3619	4.9	1
200	Distributed Model Predictive Control for Consensus of Constrained Heterogeneous Linear Systems 2020 ,		2
199	Robust Constraint Satisfaction in Data-Driven MPC 2020 ,		7
198	Rollout scheduling and control for disturbed systems via tube MPC* 2020 ,		3
197	Verifying dissipativity properties from noise-corrupted input-state data 2020 ,		5
196	Resource-Aware Asynchronous Multi-Agent Coordination via Self-Triggered MPC 2020 ,		1
195	A Nonlinear Model Predictive Control Framework Using Reference Generic Terminal Ingredients. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 3576-3583	5.9	22
194	A trajectory-based framework for data-driven system analysis and control 2020 ,		24
193	Robust data-driven state-feedback design 2020 ,		30
192	Scheduling and control over networks using MPC with time-varying terminal ingredients 2020 ,		3
191	A robust adaptive model predictive control framework for nonlinear uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020 ,	3.6	7

190	A simple framework for nonlinear robust output-feedback MPC 2019 ,		2
189	One-Shot Verification of Dissipativity Properties From InputOutput Data 2019 , 3, 709-714		33
188	Predictive Control Over a Dynamical Token Bucket Network 2019 , 3, 859-864		8
187	Moment Dynamics of Zirconia Particle Formation for Optimizing Particle Size Distribution. <i>Nanomaterials</i> , 2019 , 9,	5-4	1
186	Integration of Communication Networks and Control Systems Using a Slotted Transmission Classification Model 2019 ,		5
185	Analysis of primitive genetic interactions for the design of a genetic signal differentiator. <i>Synthetic Biology</i> , 2019 , 4, ysz015	3-3	3
184	Approximate dissipativity and performance bounds for interconnected systems 2019 ,		2
183	Economic model predictive control for snake robot locomotion 2019 ,		6
182	Linear robust adaptive model predictive control: Computational complexity and conservatism 2019 ,		7
181	Nonlinearity measures for data-driven system analysis and control 2019 ,		2
180	Data-driven inference of passivity properties via Gaussian process optimization 2019 ,		5
179	Collision avoidance for uncertain nonlinear systems with moving obstacles using robust Model Predictive Control 2019 ,		18
178	Dual Adaptive MPC for output tracking of linear systems 2019 ,		4
177	Nonlinear Dynamic Periodic Event-Triggered Control with Robustness to Packet Loss Based on Non-Monotonic Lyapunov Functions 2019 ,		2
176	Dissipativity and Economic Model Predictive Control for Optimal Set Operation 2019 ,		3
175	Event-triggered and self-triggered control for linear systems based on reachable sets. <i>Automatica</i> , 2019 , 101, 15-26	5-7	17
174	Stochastic model predictive control without terminal constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 4987-5001	3-6	5
173	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 254-269	5-9	33

172	Cooperative Estimation and Robust Synchronization of Heterogeneous Multiagent Systems With Coupled Measurements. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1597-1607	4	9
171	Stochastic thresholds in event-triggered control: A consistent policy for quadratic control. <i>Automatica</i> , 2018 , 89, 376-381	5.7	21
170	Enhancing Output-Feedback MPC With Set-Valued Moving Horizon Estimation. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2976-2986	5.9	12
169	Some Ideas on Sampling Strategies for Data-Driven Inference of Passivity Properties for MIMO Systems 2018 ,		11
168	Dynamic Resource Allocation to Control Epidemic Outbreaks A Model Predictive Control Approach 2018 ,		3
167	A Distributed Control Approach to Formation Balancing and Maneuvering of Multiple Multirotor UAVs. <i>IEEE Transactions on Robotics</i> , 2018 , 34, 870-882	6.5	32
166	Learning an Approximate Model Predictive Controller With Guarantees 2018 , 2, 543-548		68
165	A novel constraint tightening approach for nonlinear robust model predictive control 2018 ,		20
164	On Periodic Dissipativity Notions in Economic Model Predictive Control 2018 , 2, 501-506		10
163	Event-Based Vehicle Coordination Using Nonlinear Unidirectional Controllers. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1575-1584	4	18
162	Optimal Experiment Design and Leveraging Competition for Shared Resources in Cell-Free Extracts 2018 ,		3
161	Performance oriented triggering mechanisms with guaranteed traffic characterization for linear discrete-time systems 2018 ,		7
160	Sensitization of glioblastoma cells to TRAIL-induced apoptosis by IAP- and Bcl-2 antagonism. <i>Cell Death and Disease</i> , 2018 , 9, 1112	9.8	10
159	Indefinite Linear Quadratic Optimal Control: Strict Dissipativity and Turnpike Properties 2018 , 2, 399-404		4
158	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> , 2018 , 13, e0198203	3.7	7
157	Containability With Event-Based Sampling for Scalar Systems With Time-Varying Delay and Uncertainty 2018 , 2, 725-730		3
156	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3339-3353	5.9	13
155	An InputOutput Framework for Submanifold Stabilization. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5170-5184	5.9	

154	Fekete Points, Formation Control, and the Balancing Problem. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5069-5081	5.9	3
153	Robust Event-Triggered MPC With Guaranteed Asymptotic Bound and Average Sampling Rate. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5694-5709	5.9	42
152	Consensus algorithm-based approach to fundamental modeling of water pipe networks. <i>AICHE Journal</i> , 2017 , 63, 3860-3870	3.6	2
151	A resource dependent protein synthesis model for evaluating synthetic circuits. <i>Journal of Theoretical Biology</i> , 2017 , 420, 267-278	2.3	5
150	Stabilizing stochastic MPC without terminal constraints 2017 ,		1
149	Semi-explicit MPC based on subspace clustering. <i>Automatica</i> , 2017 , 83, 309-316	5.7	9
148	The circuit-breaking algorithm for monotone systems. <i>Mathematical Biosciences</i> , 2017 , 284, 80-91	3.9	
147	Sampled Observability and State Estimation of Linear Discrete Ensembles. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2406-2418	5.9	9
146	Stabilization of networked control systems with weakly hard real-time dropout description 2017 ,		13
145	Linear systems with quadratic outputs 2017 ,		4
144	Ensemble Observability of Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1452-1465	5.9	28
143	Robust self-triggered MPC for constrained linear systems: A tube-based approach. <i>Automatica</i> , 2016 , 72, 73-83	5.7	69
142	Final-state constrained optimal control via a projection operator approach 2016 ,		1
141	Multistability equivalence between gene regulatory networks of different dimensionality with application to a differentiation network. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 4148-4168	3.6	
140	Compensating Drift Vector Fields With Gradient Vector Fields for Asymptotic Submanifold Stabilization. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 388-399	5.9	7
139	Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization. <i>Automatica</i> , 2016 , 68, 132-139	5.7	64
138	Periodic reference tracking for nonlinear systems via model predictive control 2016 ,		7
137	A distributed economic MPC scheme for coordination of self-interested systems 2016 ,		5

136	Exponentially fast distributed coordination for nonsmooth convex optimization 2016 ,		6
135	On the moment dynamics of discrete measures 2016 ,		1
134	Min-max economic model predictive control approaches with guaranteed performance 2016 ,		8
133	Some problems arising in controller design from big data via input-output methods 2016 ,		22
132	A tube-based approach to nonlinear explicit MPC 2016 ,		4
131	A non-monotonic approach to periodic event-triggered control with packet loss 2016 ,		2
130	Norm-Controllability of Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 1825-1840	5.9	6
129	Stabilizing model predictive control: On the enlargement of the terminal set. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 2646-2670	3.6	7
128	Nonlinear model predictive control for path following problems. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 1168-1182	3.6	51
127	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> , 2015 , 48, 44-49	0.7	
126	On the Necessity of Diffusive Couplings in Linear Synchronization Problems With Quadratic Cost. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 3029-3034	5.9	13
125	Dynamic Pricing Control for Constrained Distribution Networks With Storage. <i>IEEE Transactions on Control of Network Systems</i> , 2015 , 2, 88-97	4	9
124	Scenario-based Stochastic MPC with guaranteed recursive feasibility 2015 ,		4
123	On the ensemble observability problem for nonlinear systems 2015 ,		5
122	On the state estimation problem for discrete ensembles from discrete-time output snapshots 2015 ,		5
121	Unconstrained nonlinear MPC: Performance estimates for sampled-data systems with zero order hold 2015 ,		2
120	Output synchronization of linear multi-agent systems under constant disturbances via distributed integral action 2015 ,		12
119	Distributed filter design for cooperative ho-type estimation 2015 ,		2

118	Towards Networked Control Systems with guaranteed stability: Using weakly hard real-time constraints to model the loss process 2015 ,		14
117	A robust nonlinear controller for nontrivial quadrotor maneuvers: Approach and verification 2015 ,		6
116	Synchronization of diffusively coupled systems on compact Riemannian manifolds in the presence of drift. <i>Systems and Control Letters</i> , 2015 , 76, 19-27	2.4	4
115	A Polyhedral Approximation Framework for Convex and Robust Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 384-395	5.9	44
114	Output Regulation for Control Systems on \mathbb{S}^n : A Separation Principle Based Approach. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3057-3062	5.9	7
113	Moving horizon H_2 control of variable speed wind turbines with actuator saturation. <i>IET Renewable Power Generation</i> , 2014 , 8, 498-508	2.9	13
112	Duality and network theory in passivity-based cooperative control. <i>Automatica</i> , 2014 , 50, 2051-2061	5.7	57
111	Decentralized state feedback control for interconnected systems with application to power systems. <i>Journal of Process Control</i> , 2014 , 24, 379-388	3.9	45
110	Selective averaging with application to phase reduction and neural control. <i>Nonlinear Theory and Its Applications IEICE</i> , 2014 , 5, 424-435	0.6	5
109	Nonlinear MPC: the Impact of Sampling on Closed Loop Stability. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 911-912	0.2	
108	Robust economic model predictive control with linear average constraints 2014 ,		1
107	An inverse problem of tomographic type in population dynamics 2014 ,		10
106	Selective Averaging with Application to Phase Reduction. <i>IEICE Proceeding Series</i> , 2014 , 2, 491-494		
105	Control over erasure channels: stochastic stability and performance of packetized unconstrained model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , 2013 , 23, 1151-1167	3.6	7
104	A projected SQP method for nonlinear optimal control with quadratic convergence 2013 ,		3
103	On time-triggered and event-based control of integrator systems over a shared communication system. <i>Mathematics of Control, Signals, and Systems</i> , 2013 , 25, 517-557	1.3	9
102	On Synchronous Steady States and Internal Models of Diffusively Coupled Systems. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 2591-2602	5.9	43
101	ℓ_1 -Optimal Control of Large Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1079-1089	4.8	20

100	Practical cluster synchronization of heterogeneous systems on graphs with acyclic topology 2013 ,		3
99	Obtaining and employing state dependent parametrizations of prespecified complexity in constrained MPC 2013 ,		6
98	A linear reformulation of Boolean optimization problems and structure identification of gene regulation networks 2013 ,		4
97	Hierarchical Clustering of Dynamical Networks Using a Saddle-Point Analysis. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 113-124	5.9	20
96	Economic model predictive control with self-tuning terminal cost. <i>European Journal of Control</i> , 2013 , 19, 408-416	2.5	59
95	An explicit solution to constrained stabilization via polytopic tubes 2013 ,		5
94	On convergence of averagely constrained economic MPC and necessity of dissipativity for optimal steady-state operation 2013 ,		29
93	Output regulation for attitude control: A global approach 2013 ,		2
92	Retransmitting lost measurements to improve remote estimation 2013 ,		3
91	Clock synchronization over directed graphs 2013 ,		5
90	Economic model predictive control with transient average constraints 2013 ,		2
89	Multistability equivalence between gene regulatory networks of different dimensionality 2013 ,		1
88	Stabilizing linear model predictive control: On the enlargement of the terminal set 2013 ,		8
87	Discrete-time Incremental ISS: A framework for Robust NMPC 2013 ,		24
86	Economic model predictive control with self-tuning terminal weight 2013 ,		2
85	Delay Robustness in Non-Identical Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1597-1603	5.9	76
84	Output synchronization of linear parameter-varying systems via dynamic couplings 2012 ,		4
83	Model predictive control of constrained LPV systems. <i>International Journal of Control</i> , 2012 , 85, 671-683	1.5	39

82	Combinatorial insights and robustness analysis for clustering in dynamical networks 2012 ,		1
81	Distributed robust optimization via Cutting-Plane Consensus 2012 ,		2
80	Cooperative control of linear parameter-varying systems 2012 ,		16
79	Is it worth to retransmit lost packets in Networked Control Systems? 2012 ,		4
78	Uncertainty-aware visual analysis of biochemical reaction networks 2012 ,		2
77	Design of sparse relative sensing networks 2012 ,		1
76	Cycles and sparse design of consensus networks 2012 ,		1
75	Cooperative control of dynamically decoupled systems via distributed model predictive control. <i>International Journal of Robust and Nonlinear Control</i> , 2012 , 22, 1376-1397	3.6	75
74	Exact convex formulations of network-oriented optimal operator placement 2012 ,		1
73	The performance of event-based control for scalar systems with packet losses 2012 ,		6
72	A constructive approach to Synchronization using relative information 2012 ,		9
71	A solution for a class of output regulation problems on $SO(n)$ 2012 ,		6
70	Robustness of steady-state optimality in economic model predictive control 2012 ,		15
69	Feedback design for multi-agent systems: A saddle point approach 2012 ,		22
68	Network-level dynamics of diffusively coupled cells 2012 ,		2
67	Predictive Control for Polynomial Systems Subject to State and Input Constraints. <i>Automatisierungstechnik</i> , 2011 , 59, 479-488	0.8	
66	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	5.9	76
65	Bifurcation search via feedback loop breaking in biochemical signaling pathways with time delay. <i>Asian Journal of Control</i> , 2011 , 13, 691-700	1.7	3

64	Unconstrained model predictive control and suboptimality estimates for nonlinear time-delay systems 2011 ,		3
63	Stochastic stability and performance estimates of packetized unconstrained model predictive control for networked control systems 2011 ,		2
62	Consensus in Multi-Agent Systems With Coupling Delays and Switching Topology. <i>IEEE Transactions on Automatic Control</i> , 2011 , 56, 2976-2982	5.9	142
61	Offline NMPC for continuous-time systems using sum of squares 2011 ,		3
60	A linear multi-agent systems approach to diffusively coupled piecewise affine systems: Delay robustness 2011 ,		1
59	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems 2011 ,		13
58	A distributed simplex algorithm and the multi-agent assignment problem 2011 ,		7
57	Locally constrained decision making via two-stage distributed simplex 2011 ,		6
56	Network clustering: A dynamical systems and saddle-point perspective 2011 ,		7
55	On the optimal sending rate for Networked Control Systems with a shared communication medium 2011 ,		10
54	Design of structured dynamic output-feedback controllers for interconnected systems. <i>International Journal of Control</i> , 2011 , 84, 2081-2091	1.5	39
53	On the zeros of consensus networks 2011 ,		13
52	On topology and dynamics of consensus among linear high-order agents. <i>International Journal of Systems Science</i> , 2011 , 42, 1831-1842	2.3	93
51	Stabilization of linear systems with distributed input delay 2010 ,		22
50	Optimal control over unreliable networks with uncertain loss rates 2010 ,		3
49	Phase synchronization through entrainment by a consensus input 2010 ,		4
48	On consensus among identical linear systems using input-decoupled functional observers 2010 ,		4
47	Generic bifurcations in the dynamics of biochemical networks 2010 ,		1

46	Robust model predictive control with disturbance invariant sets 2010,		3
45	A relaxation of Lyapunov conditions and controller synthesis for discrete-time periodic systems 2010,		3
44	General design parameters of model predictive control for nonlinear time-delay systems 2010,		5
43	Computation of the posterior entropy in a Bayesian framework for parameter estimation in biological networks 2010,		6
42	Consensus in bistable and multistable multi-agent systems 2010,		3
41	Predictive control for polynomial systems subject to constraints using sum of squares 2010,		9
40	Model predictive control of constrained nonlinear time-delay systems 2009,		4
39	Kinetic perturbations as robustness analysis tool for biochemical reaction networks 2009,		5
38	An internal model principle for synchronization 2009,		21
37	Estimating the fates of the control packets for Networked Control Systems with loss of control and measurement packets 2009,		4
36	Robustification and optimization of a Kalman filter with measurement loss using linear precoding 2009,		2
35	Consensus reaching in multi-agent packet-switched networks with non-linear coupling. <i>International Journal of Control, 2009, 82, 953-969</i>	1.5	47
34	Searching bifurcations in high-dimensional parameter space via a feedback loop breaking approach. <i>International Journal of Systems Science, 2009, 40, 769-782</i>	2.3	12
33	A set-valued filter for discrete time polynomial systems using sum of squares programming 2009,		1
32	On System Gains, Nonlinearity Measures, and Linear Models for Nonlinear Systems. <i>IEEE Transactions on Automatic Control, 2009, 54, 62-78</i>	5.9	14
31	Generalized Nyquist consensus condition for high-order linear multi-agent systems with communication delays 2009,		15
30	Stability Analysis of Time-Delay Systems With Incommensurate Delays Using Positive Polynomials. <i>IEEE Transactions on Automatic Control, 2009, 54, 1019-1024</i>	5.9	21
29	Predictive control for lure systems subject to constraints using LMIs 2009,		4

28	Multi-agent speed consensus via delayed position feedback with application to Kuramoto oscillators 2009 ,		3
27	Nonlinear model predictive control for periodic systems using LMIs 2009 ,		4
26	Observer with sample-and-hold updating for Lipschitz nonlinear systems with nonuniformly sampled measurements 2008 ,		45
25	Calculating the terminal region of NMPC for Lure systems via LMIs 2008 ,		5
24	A Dissipation Inequality for the Minimum Phase Property. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 821-826	5.9	5
23	Bistable Biological Systems: A Characterization Through Local Compact Input-to-State Stability. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 87-100	5.9	66
22	Model predictive control of uncertain continuous-time systems with piecewise constant control input: A convex approach 2008 ,		4
21	Delay-dependent rendezvous and flocking of large scale multi-agent systems with communication delays 2008 ,		33
20	Observers with impulsive dynamical behavior for linear and nonlinear continuous-time systems 2007 ,		31
19	Motivation and Learning Progress Through Educational Games. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 3141-3144	8.9	33
18	Topology-dependent stability of a network of dynamical systems with communication delays 2007 ,		13
17	Fault diagnosis of nonlinear systems using structured augmented state models. <i>International Journal of Automation and Computing</i> , 2007 , 4, 141-148	3.5	2
16	Simulation of Piezoelectric Tube Actuators by Reduced Finite Element Models for Controller Design. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3
15	Ensuring Task-Independent Safety for Multi-Agent Systems by Feedback. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3
14	Stability of Networked Systems with Multiple Delays Using Linear Programming 2007 ,		3
13	Almost sure stability and transient behavior of stochastic nonlinear jump systems motivated by networked control systems 2007 ,		2
12	Certainty-Equivalence Feedback Design With Polynomial-Type Feedbacks Which Guarantee ISS. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 716-720	5.9	5
11	An impulsive observer that estimates the exact state of a linear continuous-time system in predetermined finite time 2007 ,		4

10	Multi-agent system consensus in packet-switched networks 2007 ,		2
9	Robust l1 Performance Analysis in face of Parametric Uncertainties 2006 ,		1
8	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation 2006 ,		1
7	Fault Diagnosis with Structured Augmented State Models: Modeling, Analysis, and Design 2006 ,		4
6	Stability Analysis for Time-Delay Systems using Rekasius@Substitution and Sum of Squares 2006 ,		12
5	A Finite Time Unknown Input Observer For Linear Systems 2006 ,		18
4	Results Towards Identifiability Properties of Biochemical Reaction Networks 2006 ,		16
3	Nonlinear model predictive control of a four tank system: An experimental stability study 2006 ,		17
2	Output feedback stabilization of constrained systems with nonlinear predictive control. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 211-227	3.6	46
1	Nonlinear model predictive control of a four tank system: An experimental stability study		11