

Frank Allgwer

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.

537
papers

10,435
citations

48
h-index

87
g-index

591
ext. papers

12,791
ext. citations

2.9
avg, IF

6.85
L-index

#	Paper	IF	Citations
537	Training Robust Neural Networks Using Lipschitz Bounds 2022 , 6, 121-126		3
536	Rollout event-triggered control: reconciling event- and time-triggered control. <i>Automatisierungstechnik</i> , 2022 , 70, 331-342	0.8	1
535	Data-driven model predictive control: closed-loop guarantees and experimental results. <i>Automatisierungstechnik</i> , 2021 , 69, 608-618	0.8	2
534	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
533	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
532	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
531	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1702-1717	5.9	62
530	Distributed economic model predictive control for cooperative supply chain management using customer forecast information. <i>IFAC Journal of Systems and Control</i> , 2021 , 15, 100125	0.9	4
529	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
528	Robust and optimal predictive control of the COVID-19 outbreak. <i>Annual Reviews in Control</i> , 2021 , 51, 525-539	10.3	43
527	Transient Performance of Tube-based Robust Economic Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2021 , 54, 28-35	0.7	
526	Data-driven analysis and control of continuous-time systems under aperiodic sampling. <i>IFAC-PapersOnLine</i> , 2021 , 54, 210-215	0.7	4
525	Constrained nonlinear output regulation using model predictive control. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	2
524	On the design of terminal ingredients for data-driven MPC. <i>IFAC-PapersOnLine</i> , 2021 , 54, 257-263	0.7	1
523	Model predictive control for autonomous ground vehicles: a review. <i>Autonomous Intelligent Systems</i> , 2021 , 1, 1		3
522	Model Predictive Control for Flexible Job Shop Scheduling in Industry 4.0. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8145	2.6	2
521	Dissipativity Verification With Guarantees for Polynomial Systems From Noisy Input-State Data 2021 , 5, 1399-1404		3

520	Efficient stability analysis approaches for nonlinear weakly-hard real-time control systems. <i>Automatica</i> , 2021 , 133, 109868	5.7	1
519	Determining optimal input-output properties: A data-driven approach. <i>Automatica</i> , 2021 , 134, 109906	5.7	4
518	Model-Free Practical Cooperative Control for Diffusively Coupled Systems. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	4
517	Stability and performance in MPC using a finite-tail cost. <i>IFAC-PapersOnLine</i> , 2021 , 54, 166-171	0.7	0
516	Data-Based System Analysis and Control of Flat Nonlinear Systems 2021 ,		5
515	Sample-based modeling reveals bidirectional interplay between cell cycle progression and extrinsic apoptosis. <i>PLoS Computational Biology</i> , 2020 , 16, e1007812	5	1
514	Augmenting MPC Schemes With Active Learning: Intuitive Tuning and Guaranteed Performance 2020 , 4, 713-718		3
513	Periodic optimal control of nonlinear constrained systems using economic model predictive control. <i>Journal of Process Control</i> , 2020 , 92, 185-201	3.9	2
512	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
511	Dissipativity properties in constrained optimal control: A computational approach. <i>Automatica</i> , 2020 , 114, 108840	5.7	8
510	Distributed Model Predictive Control for Consensus of Constrained Heterogeneous Linear Systems 2020 ,		2
509	Rollout scheduling and control for disturbed systems via tube MPC* 2020 ,		3
508	Stability Analysis for Nonlinear Weakly Hard Real-Time Control Systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2594-2599	0.7	3
507	A distributed optimization algorithm for Nash bargaining in multi-agent systems. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2684-2689	0.7	0
506	Stability and performance in transient average constrained economic MPC without terminal constraints. <i>IFAC-PapersOnLine</i> , 2020 , 53, 6943-6950	0.7	1
505	Probabilistic H-norm estimation via Gaussian process system identification. <i>IFAC-PapersOnLine</i> , 2020 , 53, 431-436	0.7	
504	A Resource-Aware Approach to Self-Triggered Model Predictive Control. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2733-2738	0.7	2
503	Verifying dissipativity properties from noise-corrupted input-state data 2020 ,		5

502	A Constraint-Tightening Approach to Nonlinear Stochastic Model Predictive Control under General Bounded Disturbances. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7130-7135	0.7	0
501	Saving Tokens in Rollout Control with Token Bucket Specification. <i>IFAC-PapersOnLine</i> , 2020 , 53, 2620-2627		1
500	A nonlinear tracking model predictive control scheme for dynamic target signals. <i>Automatica</i> , 2020 , 118, 109030	5.7	12
499	Data-Driven Tracking MPC for Changing Setpoints. <i>IFAC-PapersOnLine</i> , 2020 , 53, 6923-6930	0.7	5
498	Robust Economic Model Predictive Control without Terminal Conditions. <i>IFAC-PapersOnLine</i> , 2020 , 53, 7097-7104	0.7	2
497	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
496	A trajectory-based framework for data-driven system analysis and control 2020 ,		24
495	Robust data-driven state-feedback design 2020 ,		30
494	Scheduling and control over networks using MPC with time-varying terminal ingredients 2020 ,		3
493	A robust adaptive model predictive control framework for nonlinear uncertain systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020 ,	3.6	7
492	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 388-402	4.8	11
491	A simple framework for nonlinear robust output-feedback MPC 2019 ,		2
490	One-Shot Verification of Dissipativity Properties From Input-Output Data 2019 , 3, 709-714		33
489	Predictive Control Over a Dynamical Token Bucket Network 2019 , 3, 859-864		8
488	Periodic event-triggered control for networked control systems based on non-monotonic Lyapunov functions. <i>Automatica</i> , 2019 , 106, 35-46	5.7	32
487	Robust MPC with recursive model update. <i>Automatica</i> , 2019 , 103, 461-471	5.7	51
486	Moment Dynamics of Zirconia Particle Formation for Optimizing Particle Size Distribution. <i>Nanomaterials</i> , 2019 , 9,	5.4	1
485	Integration of Communication Networks and Control Systems Using a Slotted Transmission Classification Model 2019 ,		5

484	A Novel Optimal Online Scheduling Scheme for Flexible Manufacturing Systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 1-6	0.7	5
483	Economic model predictive control for snake robot locomotion 2019 ,		6
482	Linear robust adaptive model predictive control: Computational complexity and conservatism 2019 ,		7
481	Nonlinearity measures for data-driven system analysis and control 2019 ,		2
480	Collision avoidance for uncertain nonlinear systems with moving obstacles using robust Model Predictive Control 2019 ,		18
479	Dual Adaptive MPC for output tracking of linear systems 2019 ,		4
478	Nonlinear Dynamic Periodic Event-Triggered Control with Robustness to Packet Loss Based on Non-Monotonic Lyapunov Functions 2019 ,		2
477	A Petri Net Modeling Framework for the Control of Flexible Manufacturing Systems. <i>IFAC-PapersOnLine</i> , 2019 , 52, 492-498	0.7	5
476	Event-based Containability for Linear Systems with Arbitrarily Small Bit Rates. <i>IFAC-PapersOnLine</i> , 2019 , 52, 31-36	0.7	
475	Individual-based modeling explains effects of TRAIL treatment in cancer cells.. <i>IFAC-PapersOnLine</i> , 2019 , 52, 207-212	0.7	
474	Event-triggered and self-triggered control for linear systems based on reachable sets. <i>Automatica</i> , 2019 , 101, 15-26	5.7	17
473	Distributed model predictive control Recursive feasibility under inexact dual optimization. <i>Automatica</i> , 2019 , 102, 1-9	5.7	9
472	Simultaneous stabilization of discrete-time delay systems and bounds on delay margin. <i>Automatica</i> , 2019 , 101, 296-308	5.7	2
471	Ensemble Controllability of Cellular Oscillators 2019 , 3, 296-301		6
470	Stochastic model predictive control without terminal constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 4987-5001	3.6	5
469	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 254-269	5.9	33
468	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
467	Passivity-Based Ensemble Control for Cell Cycle Synchronization. <i>Lecture Notes in Control and Information Sciences - Proceedings</i> , 2018 , 1-13	0.2	2

466	Stochastic thresholds in event-triggered control: A consistent policy for quadratic control. <i>Automatica</i> , 2018 , 89, 376-381	5.7	21
465	Enhancing Output-Feedback MPC With Set-Valued Moving Horizon Estimation. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2976-2986	5.9	12
464	On optimal system operation in robust economic MPC. <i>Automatica</i> , 2018 , 88, 98-106	5.7	14
463	Some Ideas on Sampling Strategies for Data-Driven Inference of Passivity Properties for MIMO Systems 2018 ,		11
462	Dynamic Resource Allocation to Control Epidemic Outbreaks A Model Predictive Control Approach 2018 ,		3
461	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
460	A distributed economic MPC framework for cooperative control under conflicting objectives. <i>Automatica</i> , 2018 , 96, 368-379	5.7	13
459	Learning an Approximate Model Predictive Controller With Guarantees 2018 , 2, 543-548		68
458	A novel constraint tightening approach for nonlinear robust model predictive control 2018 ,		20
457	On Periodic Dissipativity Notions in Economic Model Predictive Control 2018 , 2, 501-506		10
456	Event-Based Vehicle Coordination Using Nonlinear Unidirectional Controllers. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1575-1584	4	18
455	Death patterns resulting from cell cycle-independent cell death.. <i>IFAC-PapersOnLine</i> , 2018 , 51, 90-93	0.7	1
454	Interconnections of dissipative systems and distributed economic MPC. <i>IFAC-PapersOnLine</i> , 2018 , 51, 86-91	0.7	4
453	MPC for nonlinear periodic tracking using reference generic offline computations. <i>IFAC-PapersOnLine</i> , 2018 , 51, 556-561	0.7	6
452	Learning-Based Robust Model Predictive Control with State-Dependent Uncertainty. <i>IFAC-PapersOnLine</i> , 2018 , 51, 442-447	0.7	20
451	Data-driven inference of conic relations via saddle-point dynamics. <i>IFAC-PapersOnLine</i> , 2018 , 51, 396-401	0.7	3
450	Ensemble control for cell cycle synchronization of heterogeneous cell populations. <i>IFAC-PapersOnLine</i> , 2018 , 51, 44-47	0.7	
449	Bearing-Only Formation Control with Limited Visual Sensing: Two Agent Case. <i>IFAC-PapersOnLine</i> , 2018 , 51, 28-33	0.7	1

448	Optimal Experiment Design and Leveraging Competition for Shared Resources in Cell-Free Extracts 2018 ,		3
447	Performance oriented triggering mechanisms with guaranteed traffic characterization for linear discrete-time systems 2018 ,		7
446	Nonlinear Reference Tracking with Model Predictive Control:An Intuitive Approach 2018 ,		3
445	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
444	Indefinite Linear Quadratic Optimal Control: Strict Dissipativity and Turnpike Properties 2018 , 2, 399-404		4
443	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
442	Containability With Event-Based Sampling for Scalar Systems With Time-Varying Delay and Uncertainty 2018 , 2, 725-730		3
441	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3339-3353	5.9	13
440	An Input-Output Framework for Submanifold Stabilization. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5170-5184	5.9	
439	Fekete Points, Formation Control, and the Balancing Problem. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 5069-5081	5.9	3
438	Stochastic MPC with offline uncertainty sampling. <i>Automatica</i> , 2017 , 81, 176-183	5.7	29
437	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
436	Consensus algorithm-based approach to fundamental modeling of water pipe networks. <i>AICHE Journal</i> , 2017 , 63, 3860-3870	3.6	2
435	A resource dependent protein synthesis model for evaluating synthetic circuits. <i>Journal of Theoretical Biology</i> , 2017 , 420, 267-278	2.3	5
434	Structured optimal feedback in multi-agent systems: A static output feedback perspective. <i>Automatica</i> , 2017 , 76, 214-221	5.7	9
433	Robust nonlinear control approach to nontrivial maneuvers and obstacle avoidance for quadrotor UAV under disturbances. <i>Robotics and Autonomous Systems</i> , 2017 , 98, 317-332	3.5	26
432	Periodic Signal Compressors. <i>IFAC-PapersOnLine</i> , 2017 , 50, 6465-6470	0.7	
431	New results on semi-explicit and almost explicit MPC algorithms. <i>Automatisierungstechnik</i> , 2017 , 65, 245-259	0.8	1

430	Stabilizing stochastic MPC without terminal constraints 2017 ,		1
429	Structured State Feedback Controllers and Optimal Submanifold Stabilization. <i>SIAM Journal on Control and Optimization</i> , 2017 , 55, 2393-2411	1.9	1
428	Semi-explicit MPC based on subspace clustering. <i>Automatica</i> , 2017 , 83, 309-316	5.7	9
427	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3165-3177	5.9	80
426	The circuit-breaking algorithm for monotone systems. <i>Mathematical Biosciences</i> , 2017 , 284, 80-91	3.9	
425	Sampled Observability and State Estimation of Linear Discrete Ensembles. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2406-2418	5.9	9
424	Real time economic dispatch for power networks: A distributed economic model predictive control approach 2017 ,		12
423	Quasi full information feedback control law of linear systems * *Shuyou Yu, Jing Wang and Hong Chen would like to thank the National Natural Science Foundation of China for financial support within the projects No.61573165 and No.61034001. This research was partially supported by the National Research Foundation of Korea Grant funded by the Korean Government (NRF-2015R1D1A1A01060588). <i>IFAC-PapersOnLine</i> , 2017 , 50, 894-899	0.7	1
422	Determining dissipation inequalities from input-output samples. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7789-7794	0.7	9
421	Signal differentiation with genetic networks. <i>IFAC-PapersOnLine</i> , 2017 , 50, 10938-10943	0.7	7
420	Adaptive Model Predictive Control with Robust Constraint Satisfaction. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3313-3318	0.7	16
419	On Exploitation of Supply Chain Properties by Sequential Distributed MPC * *P. KBlér, M. Müller and F. Allgöwer thank the German Research Foundation (DFG) for support of this work within grant AL 316/11-1 and within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. M. Müller's research is supported by the DFG grant SFB 895/14	0.7	2
418	Delay-dependent data rate bounds for containability of scalar systems. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7875-7880	0.7	7
417	Systems with integral resource consumption 2017 ,		1
416	Stabilization of networked control systems with weakly hard real-time dropout description 2017 ,		13
415	Transient performance of economic model predictive control with average constraints 2017 ,		1
414	Sampling strategies for data-driven inference of passivity properties 2017 ,		16
413	Linear systems with quadratic outputs 2017 ,		4

412	Ensemble Observability of Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1452-1465	5.9	28
411	Industrie 4.0 [(R)evolution ohne Regelungstechnik?. <i>Automatisierungstechnik</i> , 2016 , 64, 507-520	0.8	2
410	Robust self-triggered MPC for constrained linear systems: A tube-based approach. <i>Automatica</i> , 2016 , 72, 73-83	5.7	69
409	A moment-based approach to ensemble controllability of linear systems. <i>Systems and Control Letters</i> , 2016 , 98, 49-56	2.4	9
408	On the observability properties of systems with rolling shutter 2016 ,		1
407	Final-state constrained optimal control via a projection operator approach 2016 ,		1
406	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	
405	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
404	Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization. <i>Automatica</i> , 2016 , 68, 132-139	5.7	64
403	Periodic reference tracking for nonlinear systems via model predictive control 2016 ,		7
402	A distributed economic MPC scheme for coordination of self-interested systems 2016 ,		5
401	Observer-based synchronization with relative measurements and unknown neighbour models 2016 ,		1
400	Exponentially fast distributed coordination for nonsmooth convex optimization 2016 ,		6
399	Efficient Computation of All Distinct Realization Structures of Kinetic Systems. <i>IFAC-PapersOnLine</i> , 2016 , 49, 194-200	0.7	2
398	A general sampled observability result and its applications 2016 ,		5
397	On the moment dynamics of discrete measures 2016 ,		1
396	Consensus-based Distributed Kalman-Bucy Filter for Continuous-time Systems. <i>IFAC-PapersOnLine</i> , 2016 , 49, 321-326	0.7	7
395	Stabilizing Model Predictive Control without Terminal Constraints for Switched Nonlinear Systems. <i>IFAC-PapersOnLine</i> , 2016 , 49, 65-70	0.7	4

394	Min-max economic model predictive control approaches with guaranteed performance 2016 ,		8
393	Some problems arising in controller design from big data via input-output methods 2016 ,		22
392	Persistence of Excitation and the Feedback Theorem for Passive Systems. <i>IFAC-PapersOnLine</i> , 2016 , 49, 927-932	0.7	1
391	A Lyapunov Function Approach to the Event-triggered Stabilization of the Minimal Robust Positively Invariant Set**The authors would like to thank the German Research Foundation (DFG) for financial support within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. The authors would also like to thank the DFG for their financial support	0.7	
390	State estimation of interconnected ensembles with anonymized outputs. <i>IFAC-PapersOnLine</i> , 2016 , 49, 109-114	0.7	1
389	Numerical Evaluation of a Robust Self-Triggered MPC Algorithm**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. The authors would also like to thank the DFG for their financial support within the research grant AL 316/3-1. This work is also supported by the Innovational Research Incentives Scheme under the VICI grant	0.7	1
388	A tube-based approach to nonlinear explicit MPC 2016 ,		4
387	A non-monotonic approach to periodic event-triggered control with packet loss 2016 ,		2
386	IFAC gratuliert Boppard: Glückwünsche einer 60-Jährigen an einen 50-Jährigen. <i>Automatisierungstechnik</i> , 2016 , 64, 162-163	0.8	
385	Robust economic Model Predictive Control using stochastic information. <i>Automatica</i> , 2016 , 74, 151-161	5.7	24
384	Asymptotic stabilization of submanifolds embedded in Riemannian manifolds. <i>Automatica</i> , 2016 , 74, 349-359	5.7	7
383	Norm-Controllability of Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 1825-1840	5.9	6
382	Navigation and obstacle avoidance via backstepping for mechanical systems with drift in the closed loop 2015 ,		1
381	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
380	Nonlinear model predictive control for path following problems. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 1168-1182	3.6	51
379	. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 1671-1676	5.9	74
378	A Simple Semi-explicit MPC Algorithm. <i>IFAC-PapersOnLine</i> , 2015 , 48, 489-494	0.7	2
377	Extremum Seeking with Drift**All 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. Hans-Bernd Dör and Christian Ebenbauer are additionally supported by the German Research Foundation (DFG) within the Emmy-Noether-Grant Flow Ways in Control and Computation((EB 425/2-1). <i>IFAC-PapersOnLine</i> , 2015 , 48, 126-130	0.7	1

376	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, 14-19	0.7	
375	Improving Performance in Robust Economic MPC Using Stochastic Information**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, 410-415	0.7	2
374	Resource-aware set-valued estimation for discrete-time linear systems 2015,		4
373	Yield-Analysis of Different Coupling Schemes for Interconnected Bio-Reactors 2015, 384-391		0
372	Nonlinear Event-Triggered Platooning Control with Exponential Convergence**The authors Steffen Linsenmayer and Frank Allgöwer 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. The work of Dimos Dimitrovski has been supported by the Swedish Research Council (VR). <i>IFAC-PapersOnLine</i> , 2015, 48, 138-145	0.7	1
371	Robust Event-Triggered MPC for Constrained Linear Discrete-Time Systems with Guaranteed Average Sampling Rate**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.	0.7	6
370	Communication Scheduling in Robust Self-Triggered MPC for Linear Discrete-Time Systems**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. The authors would also like to thank the DFG for their financial support within the	0.7	4
369	On the Necessity of Diffusive Couplings in Linear Synchronization Problems With Quadratic Cost. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 3029-3034 2015, 48, 132-137	5.9	13
368	Dynamic Pricing Control for Constrained Distribution Networks With Storage. <i>IEEE Transactions on Control of Network Systems</i> , 2015, 2, 88-97	4	9
367	Scenario-based Stochastic MPC with guaranteed recursive feasibility 2015,		4
366	An improved constraint-tightening approach for Stochastic MPC 2015,		12
365	Cooperative H _∞ Estimation for large-scale interconnected linear systems 2015,		1
364	Robust self-triggered model predictive control for constrained discrete-time LTI systems based on homothetic tubes 2015,		15
363	On the ensemble observability problem for nonlinear systems 2015,		5
362	On the state estimation problem for discrete ensembles from discrete-time output snapshots 2015 ,		5
361	Unconstrained nonlinear MPC: Performance estimates for sampled-data systems with zero order hold 2015,		2
360	Output synchronization of linear multi-agent systems under constant disturbances via distributed integral action 2015,		12
359	Distributed filter design for cooperative ho-type estimation 2015,		2

358	Towards Networked Control Systems with guaranteed stability: Using weakly hard real-time constraints to model the loss process 2015 ,		14
357	Stabilizing submanifolds with passive input-output relations 2015 ,		2
356	Sampled observability of discrete heterogeneous ensembles from anonymized output measurements 2015 ,		2
355	A robust nonlinear controller for nontrivial quadrotor maneuvers: Approach and verification 2015 ,		6
354	On the role of dissipativity in economic model predictive control. <i>IFAC-PapersOnLine</i> , 2015 , 48, 110-116	0.7	25
353	On robust synchronization of heterogeneous linear multi-agent systems with static couplings. <i>Automatica</i> , 2015 , 53, 392-399	5.7	61
352	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
351	Practical synchronization with diffusive couplings. <i>Automatica</i> , 2015 , 53, 235-243	5.7	43
350	An individual-based simulation framework for dynamic, heterogeneous cell populations during extrinsic stimulations. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2015 , 3, 143-155		6
349	Two Gradient-Based Control Laws on $(SE(3))$ Derived from Distance Functions. <i>Mechanisms and Machine Science</i> , 2015 , 31-41	0.3	
348	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	1.9	27
347	Convergence in economic model predictive control with average constraints. <i>Automatica</i> , 2014 , 50, 3100-3111	3.0	30
346	Robust self-triggered MPC for constrained linear systems 2014 ,		17
345	A Polyhedral Approximation Framework for Convex and Robust Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 384-395	5.9	44
344	Inherent robustness properties of quasi-infinite horizon nonlinear model predictive control. <i>Automatica</i> , 2014 , 50, 2269-2280	5.7	59
343	Output Regulation for Control Systems on $SE(n)$: A Separation Principle Based Approach. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 3057-3062	5.9	7
342	Moving horizon H _∞ control of variable speed wind turbines with actuator saturation. <i>IET Renewable Power Generation</i> , 2014 , 8, 498-508	2.9	13
341	Duality and network theory in passivity-based cooperative control. <i>Automatica</i> , 2014 , 50, 2051-2061	5.7	57

340	Improved state dependent parametrizations including a piecewise linear feedback for constrained linear MPC 2014 ,		3
339	Tube-based robust economic model predictive control. <i>Journal of Process Control</i> , 2014 , 24, 1237-1246	3.9	51
338	On the performance of economic model predictive control with self-tuning terminal cost. <i>Journal of Process Control</i> , 2014 , 24, 1179-1186	3.9	32
337	. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 167-176	4	55
336	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
335	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	5.1	70
334	Set-based Disturbance Attenuation in Economic Model Predictive Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1898-1903		
333	Synchronized model matching: a novel approach to cooperative control of nonlinear multi-agent systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1985-1990		7
332	Nonlinear MPC: the Impact of Sampling on Closed Loop Stability. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014 , 14, 911-912	0.2	
331	Approximate Predictive Control of Polytopic Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 11060-11066		1
330	Identifiability of population models via a measure theoretical approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1717-1722		3
329	State dependent parametrizations for nonlinear MPC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1005-1010		1
328	Distributed economic MPC: a framework for cooperative control problems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 1029-1034		10
327	On the stabilizability of continuous-time systems over a packet based communication system with loss and delay. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 6466-6471		2
326	Extremum Seeking and Obstacle Avoidance on the Special Orthogonal Group. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 8229-8234		3
325	Pinning Capital Stock and Gross Investment Rate in Competing Rationally Managed Firms. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 10719-10724		
324	A distributed model predictive control scheme for networks with communication failure. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 12004-12009		5
323	Cooperative Estimation for Synchronization of Heterogeneous Multi-Agent Systems Using Relative Information. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 4662-4667		2

322	Robust economic model predictive control with linear average constraints 2014,		1
321	Pain modulators regulate the dynamics of PKA-RII phosphorylation in subgroups of sensory neurons. <i>Journal of Cell Science</i> , 2014 , 127, 216-29	5.3	28
320	A new method for finding minimum phase outputs 2014,		3
319	An inverse problem of tomographic type in population dynamics 2014,		10
318	Model predictive control using reduced order models: Guaranteed stability for constrained linear systems. <i>Journal of Process Control</i> , 2014 , 24, 1647-1659	3.9	10
317	On stability and stabilization of periodic discrete-time systems with an application to satellite attitude control. <i>Automatica</i> , 2014 , 50, 3190-3196	5.7	6
316	Transient average constraints in economic model predictive control. <i>Automatica</i> , 2014 , 50, 2943-2950	5.7	19
315	Performance analysis of economic MPC with self-tuning terminal cost 2014,		1
314	Distributed and Networked Model Predictive Control 2014 , 111-167		2
313	Distributed MPC for Consensus and Synchronization. <i>Intelligent Systems, Control and Automation: Science and Engineering</i> , 2014 , 89-100	0.6	3
312	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
311	A Finite-Time Dual Method for Negotiation between Dynamical Systems. <i>SIAM Journal on Control and Optimization</i> , 2013 , 51, 172-194	1.9	1
310	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems. <i>Systems and Control Letters</i> , 2013 , 62, 194-200	2.4	98
309	A projected SQP method for nonlinear optimal control with quadratic convergence 2013,		3
308	A new model to simulate and analyze proliferating cell populations in BrdU labeling experiments. <i>BMC Systems Biology</i> , 2013 , 7 Suppl 1, S4	3.5	3
307	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
306	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
305	ℓ ₁ -Optimal Control of Large Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1079-1089	4.8	20

304	Practical cluster synchronization of heterogeneous systems on graphs with acyclic topology 2013 ,		3
303	Obtaining and employing state dependent parametrizations of prespecified complexity in constrained MPC 2013 ,		6
302	A linear reformulation of Boolean optimization problems and structure identification of gene regulation networks 2013 ,		4
301	Wound-healing growth factor, basic FGF, induces Erk1/2-dependent mechanical hyperalgesia. <i>Pain</i> , 2013 , 154, 2216-2226	8	27
300	Hierarchical Clustering of Dynamical Networks Using a Saddle-Point Analysis. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 113-124	5.9	20
299	Performance and design of cycles in consensus networks. <i>Systems and Control Letters</i> , 2013 , 62, 85-96	2.4	57
298	Economic model predictive control with self-tuning terminal cost. <i>European Journal of Control</i> , 2013 , 19, 408-416	2.5	59
297	An explicit solution to constrained stabilization via polytopic tubes 2013 ,		5
296	Global Output Regulation for the Rotational Dynamics of a Rigid Body / Globale Ausgangsregelung für die Drehbewegung eines Starrkörpersystems. <i>Automatisierungstechnik</i> , 2013 , 61, 567-582	0.8	2
295	On convergence of averagely constrained economic MPC and necessity of dissipativity for optimal steady-state operation 2013 ,		29
294	Output regulation for attitude control: A global approach 2013 ,		2
293	Retransmitting lost measurements to improve remote estimation 2013 ,		3
292	Clock synchronization over directed graphs 2013 ,		5
291	Economic model predictive control with transient average constraints 2013 ,		2
290	On the Joint Design of the Controller, its Placement, and the Routing for Networked Control Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 240-246		
289	A Distributed Solution to the Adjustable Robust Economic Dispatch Problem. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 75-80		5
288	Constrained stabilization of periodic discrete-time systems via periodic Lyapunov functions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 17-22		1
287	Norm-controllability, or how a nonlinear system responds to large inputs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 104-109		2

286	Practical and Robust Synchronization of Systems with Additive Linear Uncertainties. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 743-748		4
285	On the Steady-State Inverse-Optimality of Passivity-based Cooperative Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 138-143		2
284	On the Optimization of the Transport Layer for Networked Control Systems. <i>Automatisierungstechnik</i> , 2013 , 61, 495-505	0.8	
283	Multistability equivalence between gene regulatory networks of different dimensionality 2013 ,		1
282	Stabilizing linear model predictive control: On the enlargement of the terminal set 2013 ,		8
281	Discrete-time Incremental ISS: A framework for Robust NMPC 2013 ,		24
280	Economic model predictive control with self-tuning terminal weight 2013 ,		2
279	Improving performance in model predictive control: Switching cost functionals under average dwell-time. <i>Automatica</i> , 2012 , 48, 402-409	5.7	37
278	Death wins against life in a spatially extended model of the caspase-3/8 feedback loop. <i>BioSystems</i> , 2012 , 108, 45-51	1.9	5
277	Frequency synchronization and phase agreement in Kuramoto oscillator networks with delays. <i>Automatica</i> , 2012 , 48, 3008-3017	5.7	30
276	Delay Robustness in Non-Identical Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1597-1603	5.9	76
275	A distributed simplex algorithm for degenerate linear programs and multi-agent assignments. <i>Automatica</i> , 2012 , 48, 2298-2304	5.7	58
274	Stability of periodically time-varying systems: Periodic Lyapunov functions. <i>Automatica</i> , 2012 , 48, 2663-2669	5.7	8
273	Dynamical optimization using reduced order models: A method to guarantee performance. <i>Journal of Process Control</i> , 2012 , 22, 1490-1501	3.9	9
272	Model predictive control of switched nonlinear systems under average dwell-time. <i>Journal of Process Control</i> , 2012 , 22, 1702-1710	3.9	47
271	Output synchronization of linear parameter-varying systems via dynamic couplings 2012 ,		4
270	Model predictive control of constrained LPV systems. <i>International Journal of Control</i> , 2012 , 85, 671-683	1.5	39
269	Combinatorial insights and robustness analysis for clustering in dynamical networks 2012 ,		1

268	Distributed robust optimization via Cutting-Plane Consensus 2012,		2
267	Cooperative control of linear parameter-varying systems 2012,		16
266	Is it worth to retransmit lost packets in Networked Control Systems? 2012,		4
265	Finite horizon model predictive control with ellipsoid mapping of uncertain linear systems. <i>IET Control Theory and Applications</i> , 2012 , 6, 2820-2828	2.5	2
264	Uncertainty-aware visual analysis of biochemical reaction networks 2012,		2
263	Unconstrained model predictive control and suboptimality estimates for nonlinear continuous-time systems. <i>Automatica</i> , 2012 , 48, 1812-1817	5.7	79
262	A visual analytics approach for models of heterogeneous cell populations. <i>Eurasip Journal on Bioinformatics and Systems Biology</i> , 2012 , 2012, 4		5
261	Improved stability conditions for unconstrained nonlinear model predictive control by using additional weighting terms 2012,		2
260	Analysis and simulation of division- and label-structured population models : a new tool to analyze proliferation assays. <i>Bulletin of Mathematical Biology</i> , 2012 , 74, 2692-732	2.1	23
259	Design of sparse relative sensing networks 2012,		1
258	Cycles and sparse design of consensus networks 2012,		1
257	Threshold-free population analysis identifies larger DRG neurons to respond stronger to NGF stimulation. <i>PLoS ONE</i> , 2012 , 7, e34257	3.7	8
256	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
255	Exact convex formulations of network-oriented optimal operator placement 2012,		1
254	The performance of event-based control for scalar systems with packet losses 2012,		6
253	Design and control of a novel non-raster scan pattern for fast scanning probe microscopy 2012,		5
252	A constructive approach to Synchronization using relative information 2012,		9
251	A solution for a class of output regulation problems on $SO(n)$ 2012,		6

250	Growing optimally rigid formations 2012 ,	13
249	Robustness of steady-state optimality in economic model predictive control 2012 ,	15
248	A unifying framework for stability in MPC using a generalized integral terminal cost 2012 ,	2
247	Network-level dynamics of diffusively coupled cells 2012 ,	2
246	Design of biomolecular network modifications to achieve adaptation. <i>IET Systems Biology</i> , 2012 , 6, 223-31.4	9
245	Decentralized State Feedback Control for Interconnected Process Systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1-10	4
244	Nonlinear Model Predictive Control for Path Following Problems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 145-150	5
243	Static Diffusive Couplings in Heterogeneous Linear Networks*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 258-263	3
242	Structure estimation for unate Boolean models of gene regulation networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 1725-1730	
241	Robust cooperative control of dynamically decoupled systems via distributed MPC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 412-417	4
240	Design of Terminal Cost Functionals and Terminal Regions for Model Predictive Control of Nonlinear Time-Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 355-366	0.5
239	Heterogeneity reduces sensitivity of cell death for TNF-stimuli. <i>BMC Systems Biology</i> , 2011 , 5, 204	3.5 30
238	Nonlinear Predictive Control Based on Time-Domain Simulation for Automatic Landing 2011 ,	4
237	Model Predictive Control for Nonlinear Time-Delay Systems without Terminal Constraint. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 9254-9259	3
236	Analysis of Networked Event-Based Control with a Shared Communication Medium: Part II Slotted ALOHA. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 8830-8835	10
235	Unconstrained Nonlinear Model Predictive Control and Suboptimality Estimates for Continuous-Time Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 6733-6738	7
234	Design of Structured Static Output Feedback Controllers. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 271-276	5
233	\mathcal{H}_2 -System Gain and \mathcal{H}_1 -Optimal Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 9230-9235	8

232	A Distributed Real-Time Algorithm for Preference-Based Agreement. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 8933-8938		
231	Predictive Control for Polynomial Systems Subject to State and Input Constraints. <i>Automatisierungstechnik</i> , 2011 , 59, 479-488	0.8	
230	On State-Constrained Control of a CSTR*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 6079-6084		4
229	Structural requirements and discrimination of cell differentiation networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 11767-11772		
228	Parameter Estimation and Identifiability of Biological Networks Using Relative Data. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 11648-11653		6
227	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		12
226	Inherent Robustness Properties of Quasi-infinite Horizon MPC. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 179-184		3
225	Moving horizon H ₂ control of constrained periodically time-varying systems*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10156-10161		
224	Trajectory-based model reduction of nonlinear biochemical networks employing the observability normal form*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 10442-10447		1
223	A general distributed MPC framework for cooperative control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 7987-7992		7
222	Optimal and optimal-linear control over lossy, distributed networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 13239-13244		6
221	Analysis of heterogeneous cell populations: A density-based modeling and identification framework. <i>Journal of Process Control</i> , 2011 , 21, 1417-1425	3.9	20
220	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
219	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
218	Identification of models of heterogeneous cell populations from population snapshot data. <i>BMC Bioinformatics</i> , 2011 , 12, 125	3.6	69
217	Steady-state robustness of qualitative gene regulation networks. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 1742-1758	3.6	3
216	Unconstrained model predictive control and suboptimality estimates for nonlinear time-delay systems 2011 ,		3
215	Stochastic stability and performance estimates of packetized unconstrained model predictive control for networked control systems 2011 ,		2

214	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
213	Offline NMPC for continuous-time systems using sum of squares 2011 ,		3
212	A linear multi-agent systems approach to diffusively coupled piecewise affine systems: Delay robustness 2011 ,		1
211	Robust stability and instability of biochemical networks with parametric uncertainty. <i>Automatica</i> , 2011 , 47, 1139-1146	5.7	22
210	An internal model principle is necessary and sufficient for linear output synchronization. <i>Automatica</i> , 2011 , 47, 1068-1074	5.7	598
209	L2-Gain-based controller design for linear systems with distributed input delay. <i>IMA Journal of Mathematical Control and Information</i> , 2011 , 28, 225-237	1.1	5
208	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems 2011 ,		13
207	A distributed simplex algorithm and the multi-agent assignment problem 2011 ,		7
206	Locally constrained decision making via two-stage distributed simplex 2011 ,		6
205	Network clustering: A dynamical systems and saddle-point perspective 2011 ,		7
204	On the optimal sending rate for Networked Control Systems with a shared communication medium 2011 ,		10
203	Model predictive control of constrained non-linear time-delay systems. <i>IMA Journal of Mathematical Control and Information</i> , 2011 , 28, 183-201	1.1	13
202	Design of structured dynamic output-feedback controllers for interconnected systems. <i>International Journal of Control</i> , 2011 , 84, 2081-2091	1.5	39
201	On the zeros of consensus networks 2011 ,		13
200	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
199	Robust Rendezvous of Heterogeneous Euler-Lagrange Systems on Packet-Switched Networks Robustes Rendezvous von heterogenen Euler-Lagrange Systemen mithilfe paketvermittelnder Netzwerke. <i>Automatisierungstechnik</i> , 2010 , 58,	0.8	3
198	Stabilization of linear systems with distributed input delay 2010 ,		22
197	Optimal control over unreliable networks with uncertain loss rates 2010 ,		3

196	Phase synchronization through entrainment by a consensus input 2010 ,			4
195	On consensus among identical linear systems using input-decoupled functional observers 2010 ,			4
194	Generic bifurcations in the dynamics of biochemical networks 2010 ,			1
193	Robust model predictive control with disturbance invariant sets 2010 ,			3
192	Cell differentiation modeled via a coupled two-switch regulatory network. <i>Chaos</i> , 2010 , 20, 045121	3-3		15
191	A relaxation of Lyapunov conditions and controller synthesis for discrete-time periodic systems 2010 ,			3
190	General design parameters of model predictive control for nonlinear time-delay systems 2010 ,			5
189	Approximative classification of regions in parameter spaces of nonlinear ODEs yielding different qualitative behavior 2010 ,			1
188	Computation of the posterior entropy in a Bayesian framework for parameter estimation in biological networks 2010 ,			6
187	Consensus in bistable and multistable multi-agent systems 2010 ,			3
186	Predictive control for polynomial systems subject to constraints using sum of squares 2010 ,			9
185	A Matlab-Based Game for Advanced Automatic Control Education. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 42, 140-145			3
184	Stabilizing design parameters for model predictive control of constrained nonlinear time-delay systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 361-366			
183	A robustness measure for the stationary behavior of qualitative gene regulation networks. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 36-41			1
182	Preference Based Group Agreement in Cooperative Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 149-154			
181	On Synchronous Steady States and Internal Models of Diffusively Coupled Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 1-10			
180	Controller Structure Design for Decentralized Control of Coupled Higher Order Subsystems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 269-274			3
179	Optimal Controller Structure Reduction for Decentralized Control. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 303-308			3

178	Parameter identification, experimental design and model falsification for biological network models using semidefinite programming. <i>IET Systems Biology</i> , 2010 , 4, 119-30	1.4	33
177	Bridging time scales in cellular decision making with a stochastic bistable switch. <i>BMC Systems Biology</i> , 2010 , 4, 108	3.5	15
176	A maximum likelihood estimator for parameter distributions in heterogeneous cell populations. <i>Procedia Computer Science</i> , 2010 , 1, 1655-1663	1.6	10
175	Guaranteed steady state bounds for uncertain (bio-)chemical processes using infeasibility certificates. <i>Journal of Process Control</i> , 2010 , 20, 1076-1083	3.9	12
174	Delay robustness in consensus problems. <i>Automatica</i> , 2010 , 46, 1252-1265	5.7	185
173	Predictive Planning and Systematic Action On the Control of Technical Processes 2010 , 9-37		
172	Global Uncertainty Analysis for a Model of TNF-Induced NF- κ B Signalling. <i>Lecture Notes in Control and Information Sciences</i> , 2010 , 365-377	0.5	
171	A Nonlinear Synchronization Scheme for Hindmarsh-Rose Models. <i>Journal of Electrical Engineering and Technology</i> , 2010 , 5, 163-170	1.4	2
170	Model predictive control of constrained nonlinear time-delay systems 2009 ,		4
169	Kinetic perturbations as robustness analysis tool for biochemical reaction networks 2009 ,		5
168	Verification of multistability in gene regulation networks: A combinatorial approach 2009 ,		2
167	An internal model principle for synchronization 2009 ,		21
166	Estimating the fates of the control packets for Networked Control Systems with loss of control and measurement packets 2009 ,		4
165	Robustification and optimization of a Kalman filter with measurement loss using linear precoding 2009 ,		2
164	Consensus reaching in multi-agent packet-switched networks with non-linear coupling. <i>International Journal of Control</i> , 2009 , 82, 953-969	1.5	47
163	Searching bifurcations in high-dimensional parameter space via a feedback loop breaking approach. <i>International Journal of Systems Science</i> , 2009 , 40, 769-782	2.3	12
162	Mechanism of PP2A-mediated IKK beta dephosphorylation: a systems biological approach. <i>BMC Systems Biology</i> , 2009 , 3, 71	3.5	37
161	Amplitude distribution of stochastic oscillations in biochemical networks due to intrinsic noise. <i>PMC Biophysics</i> , 2009 , 2, 10		6

160	An introduction to interconnection and damping assignment passivity-based control in process engineering. <i>Journal of Process Control</i> , 2009 , 19, 1413-1426	3.9	66
159	Live and let die: systems biology view on cell death. <i>Computers and Chemical Engineering</i> , 2009 , 33, 583-589	4	10
158	Robust output feedback model predictive control of constrained linear systems: Time varying case. <i>Automatica</i> , 2009 , 45, 2082-2087	5.7	119
157	A set-valued filter for discrete time polynomial systems using sum of squares programming 2009 ,		1
156	On System Gains, Nonlinearity Measures, and Linear Models for Nonlinear Systems. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 62-78	5.9	14
155	Enlarging the Terminal Region of NMPC with Parameter-Dependent Terminal Control Law. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 69-78	0.5	9
154	Robust Stabilization and H_∞ Control of Uncertain Distributed Delay Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 221-231	0.5	3
153	Stabilizing model predictive control for LPV systems subject to constraints with parameter-dependent control law 2009 ,		14
152	Regulation of Apoptosis via the NF κ B Pathway: Modeling and Analysis 2009 , 19-33		9
151	Generalized Nyquist consensus condition for high-order linear multi-agent systems with communication delays 2009 ,		15
150	Stability Analysis of Time-Delay Systems With Incommensurate Delays Using Positive Polynomials. <i>IEEE Transactions on Automatic Control</i> , 2009 , 54, 1019-1024	5.9	21
149	Moving horizon \mathcal{L}_2 control of LPV systems subject to constraints * *The authors gratefully acknowledge funding by the German Research Foundation (AL 316/5-1) and the National Science Fund of China for Distinguished Young Scholar under grant No. 60725311. The work was partially		
148	Predictive control for constrained discrete-time periodic systems using a time-varying terminal region * *The authors gratefully acknowledge funding by the German Research Foundation (AL 316/5-1) and support by the Graduate School of the Stuttgart Research Centre for Simulation Technology (SimTech).. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 354-359		4
147	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		25
146	Generalized Nyquist Consensus Condition for Linear Multi Agent Systems with Heterogeneous Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 24-29		2
145	Estimation of biochemical network parameter distributions in cell populations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1265-1270		7
144	Guaranteed Steady-State Bounds for Uncertain Chemical Processes. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 643-648		6
143	Comparison of Different Stability Conditions for Linear Time-Delay Systems with Incommensurate Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 136-141		4

142	Output Consensus Controller Design for Nonlinear Relative Degree One Multi-Agent Systems with Delays*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 370-375		1
141	Predictive control for lure systems subject to constraints using LMIs 2009 ,		4
140	Vorausschauend Planen, Gezielt Handeln Über Die Regelung Und Steuerung Technischer Prozesse 2009 , 27-62		
139	Multi-agent speed consensus via delayed position feedback with application to Kuramoto oscillators 2009 ,		3
138	Nonlinear model predictive control for periodic systems using LMIs 2009 ,		4
137	An NMPC Approach to Avoid Weakly Observable Trajectories. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 275-284	0.5	3
136	Spacecraft Rate Damping with Predictive Control Using Magnetic Actuators Only. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 511-520	0.5	3
135	LMI-Based Model Predictive Control for Linear Discrete-Time Periodic Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 99-108	0.5	6
134	Receding Horizon Control for Linear Periodic Time-Varying Systems Subject to Input Constraints. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 109-117	0.5	7
133	Observer with sample-and-hold updating for Lipschitz nonlinear systems with nonuniformly sampled measurements 2008 ,		45
132	Calculating the terminal region of NMPC for Lure systems via LMIs 2008 ,		5
131	2008 ,		8
130	A Dissipation Inequality for the Minimum Phase Property. <i>IEEE Transactions on Automatic Control</i> , 2008 , 53, 821-826	5.9	5
129	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
128	Robust H_2 performance analysis for linear systems with parametric uncertainties. <i>International Journal of Control</i> , 2008 , 81, 851-864	1.5	4
127	Rückkopplungen im Leben und Sterben einer Zelle: Ansätze zur systemtheoretischen Analyse (Feedback during Life and Death of a Cell: Approaches for Systems Theoretical Analysis). <i>Automatisierungstechnik</i> , 2008 , 56, 233-240	0.8	
126	Modeling, Analysis, and Design of Networked Control Systems using Jump Linear Systems (Modellierung, Analyse und Entwurf vernetzter Regelsysteme mithilfe schaltender Systeme). <i>Automatisierungstechnik</i> , 2008 , 56, 20-28	0.8	5
125	Simulation of dynamics-coupling in piezoelectric tube scanners by reduced order finite element analysis. <i>Review of Scientific Instruments</i> , 2008 , 79, 015105	1.7	32

124	Model predictive control of uncertain continuous-time systems with piecewise constant control input: A convex approach 2008 ,		4
123	Model-based vibration suppression in piezoelectric tube scanners through induced voltage feedback 2008 ,		4
122	L2-gain of Port-Hamiltonian systems and application to a biochemical fermenter model 2008 ,		3
121	Delay-dependent rendezvous and flocking of large scale multi-agent systems with communication delays 2008 ,		33
120	Robust Stability of Distributed Delay Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 12354-12358		3
119	Analysis of Feedback Mechanisms in Cell-biological Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 15861-15866		1
118	Nonlinear Multi-Agent System Consensus with Time-Varying Delays. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 1522-1527		14
117	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		34
116	Avoidance of Poorly Observable Trajectories: A Predictive Control Perspective. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 1952-1957		9
115	Trends in Theory of Control System Design Status report prepared by the IFAC Coordinating Committee on Design Methods. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 2144-2155		1
114	Global Sensitivity Analysis of Biochemical Reaction Networks via Semidefinite Programming. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 9701-9706		5
113	Barrel temperature control during operation transition in injection molding. <i>Control Engineering Practice</i> , 2008 , 16, 1259-1264	3.9	20
112	Nonlinear Synchronization of Coupled Oscillators: The Polynomial Case 2008 , 339-351		
111	Observers with impulsive dynamical behavior for linear and nonlinear continuous-time systems 2007 ,		31
110	Motivation and Learning Progress Through Educational Games. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 3141-3144	8.9	33
109	Nonlinear Model Predictive Control: A Passivity-Based Approach 2007 , 151-162		15
108	Topology-dependent stability of a network of dynamical systems with communication delays 2007 ,		13
107	L 2 -Gain based controller design for linear systems with distributed delays and rational delay kernels. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 77-82		3

106	Stability analysis of constrained control systems: An alternative approach. <i>Systems and Control Letters</i> , 2007 , 56, 93-98	2.4	16
105	Optimization strategies for a MMA polymerization reactor. <i>Computers and Chemical Engineering</i> , 2007 , 31, 281-291	4	8
104	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	3.9	86
103	Linear control of nonlinear systems based on nonlinearity measures. <i>Journal of Process Control</i> , 2007 , 17, 273-284	3.9	17
102	A robustness approach to linear control of mildly nonlinear processes. <i>International Journal of Robust and Nonlinear Control</i> , 2007 , 17, 1163-1182	3.6	1
101	A nonlinear model predictive control approach for robust end-point property control of a thin-film deposition process. <i>International Journal of Robust and Nonlinear Control</i> , 2007 , 17, 1600-1613	3.6	15
100	Modelling and Analysis of Cell Death Signalling 2007 , 161-180		1
99	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
98	Steady state and (bi-) stability evaluation of simple protease signalling networks. <i>BioSystems</i> , 2007 , 90, 591-601	1.9	33
97	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
96	Ensuring Task-Independent Safety for Multi-Agent Systems by Feedback. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	3
95	Theorie der Automatisierungstechnik. <i>Automatisierungstechnik</i> , 2007 , 55, 256-259	0.8	
94	2. A Stabilizing Real-Time Implementation of Nonlinear Model Predictive Control 2007 , 25-52		18
93	Stability of Networked Systems with Multiple Delays Using Linear Programming 2007 ,		3
92	Almost sure stability and transient behavior of stochastic nonlinear jump systems motivated by networked control systems 2007 ,		2
91	Live & let die - A systems biology view on cell death. <i>Computer Aided Chemical Engineering</i> , 2007 , 927-928.6		
90	OBSERVER DESIGN VIA ABSOLUTE STABILITY FOR A CLASS OF NONLINEAR DESCRIPTOR SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 438-443		
89	MODEL PREDICTIVE CONTROL OF CONTINUOUS TIME NONLINEAR DIFFERENTIAL ALGEBRAIC SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 48-53		9

88	MODEL PREDICTIVE CONTROL FOR NONLINEAR TIME-DELAY SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 60-65		5
87	CONSTRUCTIVE SAFETY USING CONTROL BARRIER FUNCTIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007 , 40, 462-467		137
86	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
85	Diagnosis of parametric faults in multivariable nonlinear systems 2007 ,		5
84	An impulsive observer that estimates the exact state of a linear continuous-time system in predetermined finite time 2007 ,		4
83	A Dissipation Inequality for the Minimum Phase Property of Nonlinear Control Systems 2007 , 71-83		
82	Multi-agent system consensus in packet-switched networks 2007 ,		2
81	Fault Diagnosis Of Constrained Nonlinear Systems Using Structured Augmented State Models 2007 , 1300-1305		
80	Sampled-Data Nonlinear Model Predictive Control for Constrained Continuous Time Systems. <i>Lecture Notes in Control and Information Sciences</i> , 2007 , 207-235	0.5	19
79	Real-Time Implementation of Nonlinear Model Predictive Control of Batch Processes in an Industrial Framework 2007 , 465-472		8
78	From H _∞ Control to Multiobjective Control: An Overview (Von der H _∞ Regelung zur Mehrziel-Regelung: ein Überblick). <i>Automatisierungstechnik</i> , 2006 , 54, 437-449	0.8	1
77	Nonlinear Model Predictive Control and Sum of Squares Techniques 2006 , 325-344		9
76	Robust l1 Performance Analysis in face of Parametric Uncertainties 2006 ,		1
75	Nonlinear model predictive control of a turbocharged diesel engine 2006 ,		8
74	Sensitivity analysis of programmed cell death and implications for crosstalk phenomena during Tumor Necrosis Factor stimulation 2006 ,		1
73	Fault Diagnosis with Structured Augmented State Models: Modeling, Analysis, and Design 2006 ,		4
72	Stability Analysis for Time-Delay Systems using Rekasius's Substitution and Sum of Squares 2006 ,		12
71	A Finite Time Unknown Input Observer For Linear Systems 2006 ,		18

70	Results Towards Identifiability Properties of Biochemical Reaction Networks 2006 ,		16
69	Nonlinear model predictive control of a four tank system: An experimental stability study 2006 ,		17
68	Mathematical modeling and analysis of force induced bone growth. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 3154-7		13
67	CONSTRAINED DERIVATIVE-FREE AUGMENTED STATE ESTIMATION FOR A DIESEL ENGINE AIR PATH. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1382-1387		2
66	An approach to linear control of nonlinear processes. <i>Computer Aided Chemical Engineering</i> , 2006 , 21, 1299-1304	0.6	1
65	INTEGRATION OF E-LEARNING MODULES IN AUTOMATIC CONTROL EDUCATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 577-582		4
64	ON COMPLEXITY ISSUES IN MULTIOBJECTIVE CONTROLLER DESIGN USING CONVEX OPTIMIZATION. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 7-12		
63	Theory, algorithms and technology in the design of control systems. <i>Annual Reviews in Control</i> , 2006 , 30, 19-30	10.3	24
62	Robust output feedback model predictive control of constrained linear systems. <i>Automatica</i> , 2006 , 42, 1217-1222	5.7	289
61	Analysis and design of polynomial control systems using dissipation inequalities and sum of squares. <i>Computers and Chemical Engineering</i> , 2006 , 30, 1590-1602	4	64
60	Controller parameterization for SISO and MIMO plants with time delay. <i>Systems and Control Letters</i> , 2006 , 55, 794-802	2.4	12
59	Nonlinear Model Predictive Control of a Turbocharged Diesel Engine 2006 ,		31
58	Control Strategies Towards Faster Quantitative Imaging in Atomic Force Microscopy. <i>European Journal of Control</i> , 2005 , 11, 384-395	2.5	23
57	Dynamic modeling and nonlinear model predictive control of a fluid catalytic cracking unit. <i>Computer Aided Chemical Engineering</i> , 2005 , 20, 1363-1368	0.6	0
56	A SIMPLE SEPARATION RESULT FOR CONTROL AFFINE SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 1049-1054		
55	NONLINEAR MODEL PREDICTIVE CONTROL OF BATCH PROCESSES: AN INDUSTRIAL CASE STUDY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 1-6		3
54	COMPENSATION OF TIME-VARYING HARMONIC DISTURBANCES ON NONLINEAR BEARINGLESS SLICE MOTORS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 307-312		4
53	Adaptive Tracking for nonlinear higher relative degree systems. <i>Automatica</i> , 2005 , 41, 1191-1200	5.7	33

52	Nominal stability of real-time iteration scheme for nonlinear model predictive control. <i>IET Control Theory and Applications</i> , 2005 , 152, 296-308			128
51	Flatness-based optimal noncausal output transitions for constrained nonlinear systems: case study on an isothermal continuously stirred tank reactor. <i>IET Control Theory and Applications</i> , 2005 , 152, 105-112			
50	Passivity-based Feedback Design for Polynomial Control Systems (Passivitätsbasierter Reglerentwurf für polynomiale Systeme). <i>Automatisierungstechnik</i> , 2005 , 53, 356-366	0.8		1
49	Robustness properties of apoptosis models with respect to parameter variations and intrinsic noise. <i>IET Systems Biology</i> , 2005 , 152, 221-8			55
48	Reduction of mathematical models of signal transduction networks: simulation-based approach applied to EGF receptor signalling. <i>IET Systems Biology</i> , 2004 , 1, 159-69			55
47	A new control strategy for high-speed atomic force microscopy. <i>Nanotechnology</i> , 2004 , 15, 108-114	3.4		116
46	A benchmark for methods in reverse engineering and model discrimination: problem formulation and solutions. <i>Genome Research</i> , 2004 , 14, 1773-85	9.7		89
45	Bistability analyses of a caspase activation model for receptor-induced apoptosis. <i>Journal of Biological Chemistry</i> , 2004 , 279, 36892-7	5.4		225
44	The ROBORACE contest. <i>IEEE Control Systems</i> , 2004 , 24, 57-60	2.9		4
43	Passivity-based nonlinear dynamic output feedback design: a semidefinite programming approach 2004 ,			3
42	Quantitative nonlinearity assessment – An introduction to nonlinearity measures. <i>Computer Aided Chemical Engineering</i> , 2004 , 17, 76-95	0.6		11
41	Towards a Sampled-Data Theory for Nonlinear Model Predictive Control. <i>Lecture Notes in Control and Information Sciences</i> , 2004 , 295-311	0.5		14
40	Model Predictive Control for Discrete Time Polynomial Control Systems: A Convex Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004 , 37, 123-128			2
39	H _∞ Regelung von zeitdiskreten Deskriptorsystemen (H _∞ Control of Discrete-Time Descriptor Systems). <i>Automatisierungstechnik</i> , 2004 , 52, 440-445	0.8		
38	A note on stability, robustness and performance of output feedback nonlinear model predictive control. <i>Journal of Process Control</i> , 2003 , 13, 633-644	3.9		38
37	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
36	Robust model predictive control for nonlinear discrete-time systems. <i>International Journal of Robust and Nonlinear Control</i> , 2003 , 13, 229-246	3.6		146
35	State and Output Feedback Nonlinear Model Predictive Control: An Overview. <i>European Journal of Control</i> , 2003 , 9, 190-206	2.5		212

34	The quasi-infinite horizon approach to nonlinear model predictive control 2003 , 89-108		11
33	General quadratic performance analysis and synthesis of differential algebraic equation (DAE) systems. <i>Journal of Process Control</i> , 2002 , 12, 467-474	3.9	15
32	Real-time optimization and nonlinear model predictive control of processes governed by differential-algebraic equations. <i>Journal of Process Control</i> , 2002 , 12, 577-585	3.9	475
31	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 großer Systeme Teil I: Methodenbeschreibung). <i>Automatisierungstechnik</i> , 2002 , 50, 557	0.8	38
30	AN LMI APPROACH TOWARDS STABILIZATION OF DISCRETE-TIME DESCRIPTOR SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 77-82		2
29	OUTPUT FEEDBACK NONLINEAR PREDICTIVE CONTROL -A SEPARATION PRINCIPLE APPROACH. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 201-206		3
28	ON DERIVING A HYBRID MODEL FOR CARBOHYDRATE UPTAKE IN ESCHERICHIA COLI. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 19-24		
27	Using genetic algorithm in robust nonlinear model predictive control. <i>Computer Aided Chemical Engineering</i> , 2001 , 9, 711-716	0.6	2
26	Parameter and Derivative Estimation for Nonlinear Continuous-Time System Identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 663-668		1
25	High performance feedback for fast scanning atomic force microscopes. <i>Review of Scientific Instruments</i> , 2001 , 72, 3320-3327	1.7	206
24	Real-Time Optimization for Large Scale Processes: Nonlinear Model Predictive Control of a High Purity Distillation Column 2001 , 363-383		25
23	Self-scheduled H ₂ output feedback control of descriptor systems. <i>Computers and Chemical Engineering</i> , 2000 , 24, 279-284	4	20
22	Nonlinearity measures: definition, computation and applications. <i>Journal of Process Control</i> , 2000 , 10, 113-123	3.9	72
21	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. <i>Automatica</i> , 1998 , 34, 1265-1277	5.7	948
20	A computationally attractive nonlinear predictive control scheme with guaranteed stability for stable systems. <i>Journal of Process Control</i> , 1998 , 8, 475-485	3.9	25
19	A Simple Adaptive Observer for Nonlinear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998 , 31, 781-786		4
18	High-gain adaptive tracking for nonlinear systems. <i>Automatica</i> , 1997 , 33, 881-888	5.7	58
17	Nonlinear Structure Identification of Chemical Processes. <i>Computers and Chemical Engineering</i> , 1997 , 21, S137-S142	4	11

16	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	5.9	59
15	Definition and Computation of a Nonlinearity Measure. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1995 , 28, 257-262		1
14	Suboptimal design of a robustly performing controller for a chemical reactor. <i>International Journal of Control</i> , 1994 , 59, 665-687	1.5	11
13	Finite time convergent observers for nonlinear systems		16
12	An approach to gain-scheduled l_1 -optimal control of linear parameter-varying systems		1
11	State Estimation for Repetitive Processes Using Iteratively Improving Moving Horizon Observers		4
10	A Finite Time Functional Observer For Linear Systems		11
9	Polynomial Feedback and Observer Design using Nonquadratic Lyapunov Functions		8
8	Linear modeling error and steady-state behaviour of nonlinear dynamical systems		3
7	Robustness Properties and Output Feedback of Optimization Based Sampled-data Open-loop Feedback		1
6	Nonlinear model predictive control of a four tank system: An experimental stability study		11
5	Rigidity Maintenance Control for Multi-Robot Systems		23
4	Dissipation inequalities in systems theory: An introduction and recent results		10
3	The Character of an Idempotent-analytic Nonlinear Small Gain Theorem. <i>Lecture Notes in Control and Information Sciences</i> , 361-368	0.5	6
2	Iteratively Improving Moving Horizon Observers for Repetitive Processes		39-54
1	Remarks on Moving Horizon State Estimation with Guaranteed Convergence		67-80
			2