

Frank Allgwer

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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	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, 1205-1217	5.7	948
536	An internal model principle is necessary and sufficient for linear output synchronization. <i>Automatica</i> , 2011, 47, 1068-1074	5.7	598
535	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
534	Robust output feedback model predictive control of constrained linear systems. <i>Automatica</i> , 2006, 42, 1217-1222	5.7	289
533	Bistability analyses of a caspase activation model for receptor-induced apoptosis. <i>Journal of Biological Chemistry</i> , 2004, 279, 36892-7	5.4	225
532	State and Output Feedback Nonlinear Model Predictive Control: An Overview. <i>European Journal of Control</i> , 2003, 9, 190-206	2.5	212
531	High performance feedback for fast scanning atomic force microscopes. <i>Review of Scientific Instruments</i> , 2001, 72, 3320-3327	1.7	206
530	Delay robustness in consensus problems. <i>Automatica</i> , 2010, 46, 1252-1265	5.7	185
529	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
528	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
527	CONSTRUCTIVE SAFETY USING CONTROL BARRIER FUNCTIONS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2007, 40, 462-467		137
526	Nominal stability of real-time iteration scheme for nonlinear model predictive control. <i>IET Control Theory and Applications</i> , 2005, 152, 296-308		128
525	Robust output feedback model predictive control of constrained linear systems: Time varying case. <i>Automatica</i> , 2009, 45, 2082-2087	5.7	119
524	A new control strategy for high-speed atomic force microscopy. <i>Nanotechnology</i> , 2004, 15, 108-114	3.4	116
523	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
522	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
521	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

520	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
519	. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3165-3177	5.9	80
518	Unconstrained model predictive control and suboptimality estimates for nonlinear continuous-time systems. <i>Automatica</i> , 2012 , 48, 1812-1817	5.7	79
517	Delay Robustness in Non-Identical Multi-Agent Systems. <i>IEEE Transactions on Automatic Control</i> , 2012 , 57, 1597-1603	5.9	76
516	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
515	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
514	. <i>IEEE Transactions on Automatic Control</i> , 2015 , 60, 1671-1676	5.9	74
513	Nonlinearity measures: definition, computation and applications. <i>Journal of Process Control</i> , 2000 , 10, 113-123	3.9	72
512	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
511	Robust self-triggered MPC for constrained linear systems: A tube-based approach. <i>Automatica</i> , 2016 , 72, 73-83	5.7	69
510	Identification of models of heterogeneous cell populations from population snapshot data. <i>BMC Bioinformatics</i> , 2011 , 12, 125	3.6	69
509	Learning an Approximate Model Predictive Controller With Guarantees 2018 , 2, 543-548		68
508	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
507	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
506	Cooperative control of linear multi-agent systems via distributed output regulation and transient synchronization. <i>Automatica</i> , 2016 , 68, 132-139	5.7	64
505	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
504	Data-Driven Model Predictive Control With Stability and Robustness Guarantees. <i>IEEE Transactions on Automatic Control</i> , 2021 , 66, 1702-1717	5.9	62
503	On robust synchronization of heterogeneous linear multi-agent systems with static couplings. <i>Automatica</i> , 2015 , 53, 392-399	5.7	61

502	Inherent robustness properties of quasi-infinite horizon nonlinear model predictive control. <i>Automatica</i> , 2014 , 50, 2269-2280	5.7	59
501	Economic model predictive control with self-tuning terminal cost. <i>European Journal of Control</i> , 2013 , 19, 408-416	2.5	59
500	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
499	A distributed simplex algorithm for degenerate linear programs and multi-agent assignments. <i>Automatica</i> , 2012 , 48, 2298-2304	5.7	58
498	High-gain adaptive tracking for nonlinear systems. <i>Automatica</i> , 1997 , 33, 881-888	5.7	58
497	Duality and network theory in passivity-based cooperative control. <i>Automatica</i> , 2014 , 50, 2051-2061	5.7	57
496	Performance and design of cycles in consensus networks. <i>Systems and Control Letters</i> , 2013 , 62, 85-96	2.4	57
495	. <i>IEEE Transactions on Control of Network Systems</i> , 2014 , 1, 167-176	4	55
494	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
493	Robustness properties of apoptosis models with respect to parameter variations and intrinsic noise. <i>IET Systems Biology</i> , 2005 , 152, 221-8		55
492	Robust MPC with recursive model update. <i>Automatica</i> , 2019 , 103, 461-471	5.7	51
491	Nonlinear model predictive control for path following problems. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 1168-1182	3.6	51
490	Tube-based robust economic model predictive control. <i>Journal of Process Control</i> , 2014 , 24, 1237-1246	3.9	51
489	Model predictive control of switched nonlinear systems under average dwell-time. <i>Journal of Process Control</i> , 2012 , 22, 1702-1710	3.9	47
488	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
487	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
486	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
485	Observer with sample-and-hold updating for Lipschitz nonlinear systems with nonuniformly sampled measurements 2008 ,		45

484	A Polyhedral Approximation Framework for Convex and Robust Distributed Optimization. <i>IEEE Transactions on Automatic Control</i> , 2014 , 59, 384-395	5.9	44
483	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
482	Practical synchronization with diffusive couplings. <i>Automatica</i> , 2015 , 53, 235-243	5.7	43
481	Robust and optimal predictive control of the COVID-19 outbreak. <i>Annual Reviews in Control</i> , 2021 , 51, 525-539	10.3	43
480	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
479	Model predictive control of constrained LPV systems. <i>International Journal of Control</i> , 2012 , 85, 671-683	1.5	39
478	Design of structured dynamic output-feedback controllers for interconnected systems. <i>International Journal of Control</i> , 2011 , 84, 2081-2091	1.5	39
477	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
476	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
475	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
474	Improving performance in model predictive control: Switching cost functionals under average dwell-time. <i>Automatica</i> , 2012 , 48, 402-409	5.7	37
473	Mechanism of PP2A-mediated IKK beta dephosphorylation: a systems biological approach. <i>BMC Systems Biology</i> , 2009 , 3, 71	3.5	37
472	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
471	One-Shot Verification of Dissipativity Properties From Input-Output Data 2019 , 3, 709-714		33
470	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
469	Delay-dependent rendezvous and flocking of large scale multi-agent systems with communication delays 2008 ,		33
468	Motivation and Learning Progress Through Educational Games. <i>IEEE Transactions on Industrial Electronics</i> , 2007 , 54, 3141-3144	8.9	33
467	Steady state and (bi-) stability evaluation of simple protease signalling networks. <i>BioSystems</i> , 2007 , 90, 591-601	1.9	33

466	Adaptive Tracking for nonlinear higher relative degree systems. <i>Automatica</i> , 2005 , 41, 1191-1200	5.7	33
465	Nonlinear Reference Tracking: An Economic Model Predictive Control Perspective. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 254-269	5.9	33
464	Periodic event-triggered control for networked control systems based on non-monotonic Lyapunov functions. <i>Automatica</i> , 2019 , 106, 35-46	5.7	32
463	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
462	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
461	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
460	Observers with impulsive dynamical behavior for linear and nonlinear continuous-time systems 2007 ,		31
459	Nonlinear Model Predictive Control of a Turbocharged Diesel Engine 2006 ,		31
458	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
457	Convergence in economic model predictive control with average constraints. <i>Automatica</i> , 2014 , 50, 3100-3111	5.7	30
456	Frequency synchronization and phase agreement in Kuramoto oscillator networks with delays. <i>Automatica</i> , 2012 , 48, 3008-3017	5.7	30
455	Heterogeneity reduces sensitivity of cell death for TNF-stimuli. <i>BMC Systems Biology</i> , 2011 , 5, 204	3.5	30
454	Robust data-driven state-feedback design 2020 ,		30
453	Stochastic MPC with offline uncertainty sampling. <i>Automatica</i> , 2017 , 81, 176-183	5.7	29
452	On convergence of averagely constrained economic MPC and necessity of dissipativity for optimal steady-state operation 2013 ,		29
451	Ensemble Observability of Linear Systems. <i>IEEE Transactions on Automatic Control</i> , 2016 , 61, 1452-1465	5.9	28
450	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
449	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

448	Wound-healing growth factor, basic FGF, induces Erk1/2-dependent mechanical hyperalgesia. <i>Pain</i> , 2013 , 154, 2216-2226	8	27
447	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
446	On the role of dissipativity in economic model predictive control. <i>IFAC-PapersOnLine</i> , 2015 , 48, 110-116	0.7	25
445	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
444	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
443	Real-Time Optimization for Large Scale Processes: Nonlinear Model Predictive Control of a High Purity Distillation Column 2001 , 363-383		25
442	Discrete-time Incremental ISS: A framework for Robust NMPC 2013 ,		24
441	Theory, algorithms and technology in the design of control systems. <i>Annual Reviews in Control</i> , 2006 , 30, 19-30	10.3	24
440	A trajectory-based framework for data-driven system analysis and control 2020 ,		24
439	Robust economic Model Predictive Control using stochastic information. <i>Automatica</i> , 2016 , 74, 151-161	5.7	24
438	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
437	Control Strategies Towards Faster Quantitative Imaging in Atomic Force Microscopy. <i>European Journal of Control</i> , 2005 , 11, 384-395	2.5	23
436	Rigidity Maintenance Control for Multi-Robot Systems		23
435	Stabilization of linear systems with distributed input delay 2010 ,		22
434	Robust stability and instability of biochemical networks with parametric uncertainty. <i>Automatica</i> , 2011 , 47, 1139-1146	5.7	22
433	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
432	Some problems arising in controller design from big data via input-output methods 2016 ,		22
431	Stochastic thresholds in event-triggered control: A consistent policy for quadratic control. <i>Automatica</i> , 2018 , 89, 376-381	5.7	21

430	An internal model principle for synchronization 2009 ,		21
429	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
428	A novel constraint tightening approach for nonlinear robust model predictive control 2018 ,		20
427	ℓ ₁ -Optimal Control of Large Wind Turbines. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1079-1089	4.8	20
426	Hierarchical Clustering of Dynamical Networks Using a Saddle-Point Analysis. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 113-124	5.9	20
425	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
424	Barrel temperature control during operation transition in injection molding. <i>Control Engineering Practice</i> , 2008 , 16, 1259-1264	3.9	20
423	Self-scheduled H _∞ output feedback control of descriptor systems. <i>Computers and Chemical Engineering</i> , 2000 , 24, 279-284	4	20
422	Learning-Based Robust Model Predictive Control with State-Dependent Uncertainty. <i>IFAC-PapersOnLine</i> , 2018 , 51, 442-447	0.7	20
421	Transient average constraints in economic model predictive control. <i>Automatica</i> , 2014 , 50, 2943-2950	5.7	19
420	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
419	2. A Stabilizing Real-Time Implementation of Nonlinear Model Predictive Control 2007 , 25-52		18
418	A Finite Time Unknown Input Observer For Linear Systems 2006 ,		18
417	Collision avoidance for uncertain nonlinear systems with moving obstacles using robust Model Predictive Control 2019 ,		18
416	Event-Based Vehicle Coordination Using Nonlinear Unidirectional Controllers. <i>IEEE Transactions on Control of Network Systems</i> , 2018 , 5, 1575-1584	4	18
415	Robust self-triggered MPC for constrained linear systems 2014 ,		17
414	Linear control of nonlinear systems based on nonlinearity measures. <i>Journal of Process Control</i> , 2007 , 17, 273-284	3.9	17
413	Nonlinear model predictive control of a four tank system: An experimental stability study 2006 ,		17

412	Event-triggered and self-triggered control for linear systems based on reachable sets. <i>Automatica</i> , 2019 , 101, 15-26	5.7	17
411	Adaptive Model Predictive Control with Robust Constraint Satisfaction. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3313-3318	0.7	16
410	Sampling strategies for data-driven inference of passivity properties 2017 ,		16
409	Cooperative control of linear parameter-varying systems 2012 ,		16
408	Stability analysis of constrained control systems: An alternative approach. <i>Systems and Control Letters</i> , 2007 , 56, 93-98	2.4	16
407	Results Towards Identifiability Properties of Biochemical Reaction Networks 2006 ,		16
406	Finite time convergent observers for nonlinear systems		16
405	Robust self-triggered model predictive control for constrained discrete-time LTI systems based on homothetic tubes 2015 ,		15
404	Cell differentiation modeled via a coupled two-switch regulatory network. <i>Chaos</i> , 2010 , 20, 045121	3.3	15
403	Robustness of steady-state optimality in economic model predictive control 2012 ,		15
402	Generalized Nyquist consensus condition for high-order linear multi-agent systems with communication delays 2009 ,		15
401	Bridging time scales in cellular decision making with a stochastic bistable switch. <i>BMC Systems Biology</i> , 2010 , 4, 108	3.5	15
400	Nonlinear Model Predictive Control: A Passivity-Based Approach 2007 , 151-162		15
399	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
398	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
397	On optimal system operation in robust economic MPC. <i>Automatica</i> , 2018 , 88, 98-106	5.7	14
396	Towards Networked Control Systems with guaranteed stability: Using weakly hard real-time constraints to model the loss process 2015 ,		14
395	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

394	Stabilizing model predictive control for LPV systems subject to constraints with parameter-dependent control law 2009 ,		14
393	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
392	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
391	Iterative Learning and Extremum Seeking for Repetitive Time-Varying Mappings. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 3339-3353	5.9	13
390	A distributed economic MPC framework for cooperative control under conflicting objectives. <i>Automatica</i> , 2018 , 96, 368-379	5.7	13
389	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
388	Stabilization of networked control systems with weakly hard real-time dropout description 2017 ,		13
387	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
386	Tube MPC scheme based on robust control invariant set with application to Lipschitz nonlinear systems 2011 ,		13
385	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
384	On the zeros of consensus networks 2011 ,		13
383	Growing optimally rigid formations 2012 ,		13
382	Topology-dependent stability of a network of dynamical systems with communication delays 2007 ,		13
381	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
380	Enhancing Output-Feedback MPC With Set-Valued Moving Horizon Estimation. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 2976-2986	5.9	12
379	Real time economic dispatch for power networks: A distributed economic model predictive control approach 2017 ,		12
378	An improved constraint-tightening approach for Stochastic MPC 2015 ,		12
377	Output synchronization of linear multi-agent systems under constant disturbances via distributed integral action 2015 ,		12

376	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
375	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
374	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
373	Stability Analysis for Time-Delay Systems using Rekasius's Substitution and Sum of Squares 2006 ,		12
372	Controller parameterization for SISO and MIMO plants with time delay. <i>Systems and Control Letters</i> , 2006 , 55, 794-802	2.4	12
371	A nonlinear tracking model predictive control scheme for dynamic target signals. <i>Automatica</i> , 2020 , 118, 109030	5.7	12
370	Some Ideas on Sampling Strategies for Data-Driven Inference of Passivity Properties for MIMO Systems 2018 ,		11
369	Quantitative nonlinearity assessment [An introduction to nonlinearity measures. <i>Computer Aided Chemical Engineering</i> , 2004 , 17, 76-95	0.6	11
368	A Finite Time Functional Observer For Linear Systems		11
367	Suboptimal design of a robustly performing controller for a chemical reactor. <i>International Journal of Control</i> , 1994 , 59, 665-687	1.5	11
366	Nonlinear model predictive control of a four tank system: An experimental stability study		11
365	Nonlinear Structure Identification of Chemical Processes. <i>Computers and Chemical Engineering</i> , 1997 , 21, S137-S142	4	11
364	. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 388-402	4.8	11
363	The quasi-infinite horizon approach to nonlinear model predictive control 2003 , 89-108		11
362	On Periodic Dissipativity Notions in Economic Model Predictive Control 2018 , 2, 501-506		10
361	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
360	An inverse problem of tomographic type in population dynamics 2014 ,		10
359	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

358	Analysis of Networked Event-Based Control with a Shared Communication Medium: Part II Blotted ALOHA . <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 8830-8835		10
357	Live and let die: A systems biology view on cell death. <i>Computers and Chemical Engineering</i> , 2009 , 33, 583-589	4	10
356	On the optimal sending rate for Networked Control Systems with a shared communication medium 2011 ,		10
355	A maximum likelihood estimator for parameter distributions in heterogeneous cell populations. <i>Procedia Computer Science</i> , 2010 , 1, 1655-1663	1.6	10
354	Dissipation inequalities in systems theory: An introduction and recent results 23-42		10
353	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
352	Structured optimal feedback in multi-agent systems: A static output feedback perspective. <i>Automatica</i> , 2017 , 76, 214-221	5.7	9
351	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
350	A moment-based approach to ensemble controllability of linear systems. <i>Systems and Control Letters</i> , 2016 , 98, 49-56	2.4	9
349	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
348	Semi-explicit MPC based on subspace clustering. <i>Automatica</i> , 2017 , 83, 309-316	5.7	9
347	Sampled Observability and State Estimation of Linear Discrete Ensembles. <i>IEEE Transactions on Automatic Control</i> , 2017 , 62, 2406-2418	5.9	9
346	Determining dissipation inequalities from input-output samples. <i>IFAC-PapersOnLine</i> , 2017 , 50, 7789-7794	6.7	9
345	Dynamic Pricing Control for Constrained Distribution Networks With Storage. <i>IEEE Transactions on Control of Network Systems</i> , 2015 , 2, 88-97	4	9
344	Dynamical optimization using reduced order models: A method to guarantee performance. <i>Journal of Process Control</i> , 2012 , 22, 1490-1501	3.9	9
343	Predictive control for polynomial systems subject to constraints using sum of squares 2010 ,		9
342	A constructive approach to Synchronization using relative information 2012 ,		9
341	Design of biomolecular network modifications to achieve adaptation. <i>IET Systems Biology</i> , 2012 , 6, 223-314	1.4	9

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149	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> , 2017 , 50, 7947-7952	0.7	2
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