

Rolf Findeisen

List of Publications by Year in descending order

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291
papers

6,297
citations

172457

29
h-index

106344

65
g-index

294
all docs

294
docs citations

294
times ranked

3897
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable and Data Privacy Conserving Controller Tuning for Large-Scale Power Networks. IEEE Transactions on Control Systems Technology, 2022, 30, 696-711.	5.2	3
2	Maximizing batch fermentation efficiency by constrained model-based optimization and predictive control of adenosine triphosphate turnover. AICHE Journal, 2022, 68, .	3.6	5
3	Closed-loop real-time optimization for unsteady operating production systems. Journal of Process Control, 2022, 113, 80-95.	3.3	0
4	Constrained reference learning for continuous-time model predictive tracking control of autonomous systems. IFAC-PapersOnLine, 2021, 54, 329-334.	0.9	2
5	Continuous-Time Approximated Parametric Output-Feedback Nonlinear Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 251-256.	0.9	2
6	Towards Risk-aware Machine Learning Supported Model Predictive Control and Open-loop Optimization for Repetitive Processes. IFAC-PapersOnLine, 2021, 54, 321-328.	0.9	2
7	Robust MPC for networks with varying communication capabilities. IFAC-PapersOnLine, 2021, 54, 20-27.	0.9	0
8	Constrained learning for model predictive control in asymptotically constant reference tracking tasks. IFAC-PapersOnLine, 2021, 54, 244-249.	0.9	2
9	Robust Control Theory Based Stability Certificates for Neural Network Approximated Nonlinear Model Predictive Control. IFAC-PapersOnLine, 2021, 54, 347-352.	0.9	4
10	Hybrid Cybernetic Modeling of the Microbial Production of Polyhydroxyalkanoates Using Two Carbon Sources. Computer Aided Chemical Engineering, 2021, 50, 1969-1974.	0.5	3
11	One-Step Safe Neural Network Supported Control. , 2021, , .		1
12	Fast, inexpensive, and reliable HPLC method to determine monomer fractions in poly(3-hydroxybutyrate-co-3-hydroxyvalerate). Applied Microbiology and Biotechnology, 2021, 105, 4743-4749.	3.6	12
13	Stability Certificates for Neural Network Learning-based Controllers using Robust Control Theory. , 2021, , .		6
14	Reducing conservatism in stochastic model predictive blending multiple control gains. , 2021, , .		0
15	Measuring the reversible heat of lithium-ion cells via current pulses for modeling of temperature dynamics. Journal of Power Sources, 2021, 506, 230110.	7.8	3
16	Polynomial chaos-based $\int_0^T \int_{\Omega} \mathbb{E}[\mathbf{y}(t)] dt$ output-feedback control of systems with probabilistic parametric uncertainties. Automatica, 2021, 131, 109743.	5.0	13
17	Online learning-based model predictive control with Gaussian process models and stability guarantees. International Journal of Robust and Nonlinear Control, 2021, 31, 8785-8812.	3.7	39
18	Fallback Approximated Constrained Optimal Output Feedback Control Under Variable Parameters. Lecture Notes in Electrical Engineering, 2021, , 404-414.	0.4	3

#	ARTICLE	IF	CITATIONS
19	A standing molecule as a coherent single-electron field emitter. , 2021, , .		0
20	Robust output feedback MPC with reduced conservatism for linear uncertain systems using time varying tubes. , 2021, , .		3
21	Passivity-Based Inverse Optimal Impulsive Control for Influenza Treatment in the Host. IEEE Transactions on Control Systems Technology, 2020, 28, 94-105.	5.2	24
22	Errata for "Comments on Truncation Errors for Polynomial Chaos Expansions" [Jan 18 169-174]. , 2020, 4, 504-505.		0
23	Robust MPC with Reduced Conservatism Blending Multiples Tubes. , 2020, , .		8
24	Towards nominal stability certification of deep learning-based controllers. , 2020, , .		7
25	Monitoring and verification of event-driven transportation systems in discrete manufacturing. , 2020, , .		0
26	Model predictive control with guarantees for discrete linear stochastic systems subject to additive disturbances with chance constraints. , 2020, , .		0
27	Direct Force Feedback using Gaussian Process based Model Predictive Control. , 2020, , .		5
28	Structured controller parameter tuning for power systems. Control Engineering Practice, 2020, 101, 104490.	5.5	8
29	Adaptive predictive control of bioprocesses with constraint-based modeling and estimation. Computers and Chemical Engineering, 2020, 135, 106744.	3.8	17
30	Constrained Gaussian Process Learning for Model Predictive Control. IFAC-PapersOnLine, 2020, 53, 971-976.	0.9	12
31	Modelling Human Driving Behavior for Constrained Model Predictive Control in Mixed Traffic at Intersections. IFAC-PapersOnLine, 2020, 53, 14356-14362.	0.9	6
32	Approximated Constrained Optimal Control subject to Variable Parameters. IFAC-PapersOnLine, 2020, 53, 9310-9315.	0.9	2
33	Fusing multiple time varying tubes for robust MPC. IFAC-PapersOnLine, 2020, 53, 7055-7062.	0.9	11
34	Learning References with Gaussian Processes in Model Predictive Control applied to Robot Assisted Surgery. , 2020, , .		11
35	Repetitive Set-based Learning Robust Predictive Control for Lur TM e Systems. IFAC-PapersOnLine, 2020, 53, 7117-7122.	0.9	1
36	Controller tuning in power systems using singular value optimization. IFAC-PapersOnLine, 2020, 53, 13501-13507.	0.9	2

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37	Contract-based Hierarchical Model Predictive Control and Planning for Autonomous Vehicle. IFAC-PapersOnLine, 2020, 53, 15758-15764.	0.9	6
38	Multi-stage Event-triggered Model Predictive Control for Automated Trajectory Drilling. IFAC-PapersOnLine, 2020, 53, 9478-9483.	0.9	1
39	Data-driven Metabolic Network Reduction for Multiple Modes Considering Uncertain Measurements. IFAC-PapersOnLine, 2020, 53, 16866-16871.	0.9	0
40	Towards Safe Neural Network Supported Model Predictive Control. IFAC-PapersOnLine, 2020, 53, 5246-5251.	0.9	3
41	Nonlinearity Measures for Distributed Parameter and Descriptor Systems. IFAC-PapersOnLine, 2020, 53, 7545-7550.	0.9	1
42	Optimization-based primary and secondary control of microgrids. Automatisierungstechnik, 2020, 68, 1044-1058.	0.8	2
43	Path following and terminal force control of robotic manipulators. , 2020, , .		3
44	Technical Committee on Process Control [Technical Activities]. IEEE Control Systems, 2019, 39, 18-20.	0.8	0
45	Combined control and communication scheduling for constrained system using robust output feedback MPC. , 2019, , .		7
46	Combined online communication scheduling and output feedback MPC of cyber-physical systems. , 2019, , .		3
47	Multi-mode Model Predictive Control and Estimation for Uncertain Biotechnological Processes. IFAC-PapersOnLine, 2019, 52, 709-714.	0.9	8
48	Investigation of the low frequency Warburg impedance of Li-ion cells by frequency domain measurements. Journal of Energy Storage, 2019, 21, 272-280.	8.1	86
49	Quantitative imaging of electric surface potentials with single-atom sensitivity. Nature Materials, 2019, 18, 853-859.	27.5	31
50	Response to IL-6 trans- and IL-6 classic signalling is determined by the ratio of the IL-6 receptor \hat{I}_{\pm} to gp130 expression: fusing experimental insights and dynamic modelling. Cell Communication and Signaling, 2019, 17, 46.	6.5	89
51	On integral input-to-state stability of event-triggered control systems. , 2019, , .		4
52	Analysis of low frequency impedance hysteresis of Li-ion cells by time- and frequency domain measurements and its relation to the OCV hysteresis. Journal of Energy Storage, 2019, 26, 101000.	8.1	5
53	Improved Area Covering in Dynamic Environments by Nonlinear Model Predictive Path Following Control. IFAC-PapersOnLine, 2019, 52, 418-423.	0.9	5
54	Hierarchical Model Predictive Control for Autonomous Vehicle Area Coverage. IFAC-PapersOnLine, 2019, 52, 79-84.	0.9	8

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55	Modeling Enzyme Controlled Metabolic Networks in Rapidly Changing Environments by Robust Optimization. , 2019, 3, 248-253.		3
56	Nonlinear Predictive Control for Trajectory Tracking and Path Following: An Introduction and Perspective. Control Engineering, 2019, , 169-198.	0.3	20
57	Modular Design for Constrained Control of Actuator-Plant Cascades. , 2019, , .		2
58	Comments on Truncation Errors for Polynomial Chaos Expansions. , 2018, 2, 169-174.		21
59	Optimized FPGA Implementation of Model Predictive Control for Embedded Systems Using High-Level Synthesis Tool. IEEE Transactions on Industrial Informatics, 2018, 14, 137-145.	11.3	73
60	Low latency output feedback predictive control based on optimality conditions. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800429.	0.2	0
61	Admissible Control Parametrization of Uncertain Finite-time Processes With Application to Li-ion Battery Management. , 2018, , .		1
62	Eingebettete Optimierung in der Regelungstechnik â€œ Grundlagen und Herausforderungen. Automatisierungstechnik, 2018, 66, 877-902.	0.8	10
63	Controller Tuning for the Improvement of Dynamic Security in Power Systems. , 2018, , .		0
64	Model Predictive Control of a Fed-batch Bioreactor Based on Dynamic Metabolic-Genetic Network Models. IFAC-PapersOnLine, 2018, 51, 34-37.	0.9	8
65	Parameter Estimation by Picard-Iteration for Biochemical Networks with Noisy Data. IFAC-PapersOnLine, 2018, 51, 64-67.	0.9	0
66	Parameter Estimation for Signal Transduction Networks from Experimental Time Series Using Picard Iteration. IFAC-PapersOnLine, 2018, 51, 191-196.	0.9	3
67	Model-based State Estimation Based on Hybrid Cybernetic Models. IFAC-PapersOnLine, 2018, 51, 197-202.	0.9	3
68	Towards Optimal Tuning of Robust Output Feedback MPC. IFAC-PapersOnLine, 2018, 51, 134-140.	0.9	4
69	Multi-Mode Learning Supported Model Predictive Control with Guarantees. IFAC-PapersOnLine, 2018, 51, 517-522.	0.9	12
70	Contract-based Predictive Control for Modularity in Hierarchical Systems. IFAC-PapersOnLine, 2018, 51, 499-504.	0.9	7
71	Improved Robust Predictive Control for Lurâ€™e Systems Using Set-based Learning. IFAC-PapersOnLine, 2018, 51, 487-492.	0.9	3
72	Stability of Gaussian Process Learning Based Output Feedback Model Predictive Control. IFAC-PapersOnLine, 2018, 51, 455-461.	0.9	27

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73	Distributed Model Predictive Control Using Cooperative Contract Options. IFAC-PapersOnLine, 2018, 51, 448-454.	0.9	11
74	Model-supported Patient Stratification Using Set-based Estimation Methods. IFAC-PapersOnLine, 2018, 51, 892-897.	0.9	0
75	Predictive Tracking Control of a Camera - Head Mounted Display System subject to Communication Constraints. , 2018, , .		0
76	Reviewâ€”Dynamic Models of Li-Ion Batteries for Diagnosis and Operation: A Review and Perspective. Journal of the Electrochemical Society, 2018, 165, A3656-A3673.	2.9	149
77	Improved Robust Decentralized MPC. , 2018, , .		5
78	Parameter Tuning and Optimal Design of Decentralized Structured Controllers for Power Oscillation Damping in Electrical Networks. , 2018, , .		5
79	Coordinated Tuning of Controller Parameters in AC/DC Grids for Power Oscillation Damping. , 2018, , .		1
80	Robust Static \mathcal{H}_{∞} Output-Feedback Control Using Polynomial Chaos. , 2018, , .		5
81	Fast stochastic model predictive control of end-to-end continuous pharmaceutical manufacturing 1 Financial support from Novartis is acknowledged.. Computer Aided Chemical Engineering, 2018, , 353-378.	0.5	5
82	Model Predictive Control for Aircraft Load Alleviation: Opportunities and Challenges. , 2018, , .		14
83	Combined Predictive Path Following and Admittance Control. , 2018, , .		14
84	Two-degree-of-freedom control combining machine learning and extremum seeking for fast scanning quantum dot microscopy. , 2018, , .		8
85	Mathematical 3D modelling and sensitivity analysis of multipolar radiofrequency ablation in the spine. Mathematical Biosciences, 2017, 284, 51-60.	1.9	3
86	Adaptive nonlinear predictive control and estimation of microaerobic processes. IFAC-PapersOnLine, 2017, 50, 12635-12640.	0.9	2
87	Real time feasibility and performance of moving horizon estimation for Li-ion batteries based on first principles electrochemical models. , 2017, , .		3
88	Combined eventâ€•and selfâ€•triggered control approach with guaranteed finiteâ€•gain stability for uncertain linear systems. IET Control Theory and Applications, 2017, 11, 1674-1683.	2.1	11
89	Towards adaptive health-aware charging of Li-ion batteries: A real-time predictive control approach using first-principles models. , 2017, , .		12
90	On stability of stochastic linear systems via polynomial chaos expansions. , 2017, , .		9

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91	Implementation of Nonlinear Model Predictive Path-Following Control for an Industrial Robot. IEEE Transactions on Control Systems Technology, 2017, 25, 1505-1511.	5.2	110
92	Robust output feedback MPC for uncertain linear systems with reduced conservatism. IFAC-PapersOnLine, 2017, 50, 10685-10690.	0.9	30
93	Force Feedback and Path Following using Predictive Control: Concept and Application to a Lightweight Robot. IFAC-PapersOnLine, 2017, 50, 9827-9832.	0.9	14
94	Polynomial Chaos-Based H ₂ -optimal Static Output Feedback Control of Systems with Probabilistic Parametric Uncertainties. IFAC-PapersOnLine, 2017, 50, 3536-3541.	0.9	3
95	Coordinated tuning of synchronous generator controllers for power oscillation damping. , 2017, , .		4
96	Low latency output feedback model predictive control for constrained linear systems. , 2017, , .		7
97	Event-triggered actuator signal update using self-triggered sampled data for uncertain linear systems. , 2017, , .		6
98	Multi-objective complexity reduction for set-based fault diagnosis. , 2017, , .		0
99	Parameter estimation for leukocyte dynamics after chemotherapy * *This research was supported by a research grant of the "International Max Planck Research School (IMPRS) for Advanced Methods in Process and System Engineering (Magdeburg)" and from the European Research Council via the Consolidator Grant MODEST-647573. IFAC-PapersOnLine, 2016, 49, 44-49.	0.9	3
100	The impact of experimental data quality on computational systems biology and engineering. IFAC-PapersOnLine, 2016, 49, 140-146.	0.9	4
101	Set-based Experiment Design for Model Discrimination Using Bilevel Optimization. IFAC-PapersOnLine, 2016, 49, 295-299.	0.9	1
102	Monotonicity of Kinetic Proofreading. IFAC-PapersOnLine, 2016, 49, 306-311.	0.9	1
103	Verifying robust forward admissibility for nonlinear systems using (skewed) structured singular values. , 2016, , .		2
104	Exploiting models of different granularity in robust predictive control. , 2016, , .		7
105	Sampled-data, output feedback predictive control of uncertain, nonlinear systems. IFAC-PapersOnLine, 2016, 49, 47-52.	0.9	7
106	Output feedback MPC with send-on-delta measurements for uncertain systems. IFAC-PapersOnLine, 2016, 49, 145-150.	0.9	8
107	Efficient stochastic model predictive control for embedded systems based on second-order cone programs. , 2016, , .		1
108	Efficiency and performance of embedded model predictive control for active vibration attenuation. , 2016, , .		7

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109	Model predictive control for uncertain nonlinear systems subject to chance constraints. , 2016, , .		1
110	Robustness analysis, prediction, and estimation for uncertain biochemical networks: An overview. Journal of Process Control, 2016, 42, 14-34.	3.3	29
111	Predictive control, embedded cyberphysical systems and systems of systems – A perspective. Annual Reviews in Control, 2016, 41, 193-207.	7.9	62
112	A Set-Based Optimal Control Approach for Pharmacokinetic/Pharmacodynamic Drug Dosage Design. IFAC-PapersOnLine, 2016, 49, 797-802.	0.9	7
113	Control on a molecular scale: A perspective. , 2016, , .		7
114	Manipulation on a molecular level: towards controlled molecular 3D printing. , 2016, , .		0
115	Output feedback model predictive control with probabilistic uncertainties for linear systems. , 2016, , .		7
116	Activation of D2 autoreceptors alters cocaine-induced locomotion and slows down local field oscillations in the rat ventral tegmental area. Neuropharmacology, 2016, 108, 120-127.	4.1	6
117	The Experimental Side of Parameter Estimation. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2016, , 127-154.	1.0	7
118	Nonlinear Model Predictive Control for Constrained Output Path Following. IEEE Transactions on Automatic Control, 2016, 61, 1026-1039.	5.7	132
119	Improved Design of Nonlinear Model Predictive Controllers. IFAC-PapersOnLine, 2015, 48, 254-259.	0.9	14
120	Controller Verification and Parametrization Subject to Quantitative and Qualitative Requirements. IFAC-PapersOnLine, 2015, 48, 1174-1179.	0.9	7
121	A Stochastic Model Predictive Controller for Systems with Unreliable Communications. IFAC-PapersOnLine, 2015, 48, 57-64.	0.9	15
122	Contract-based Predictive Control of Distributed Systems with Plug and Play Capabilities. IFAC-PapersOnLine, 2015, 48, 205-211.	0.9	35
123	Rate of convergence analysis of a dual fast gradient method for general convex optimization. , 2015, , .		1
124	Efficient stochastic model predictive control based on polynomial chaos expansions for embedded applications. , 2015, , .		14
125	Robust output feedback predictive control with self-triggered measurements. , 2015, , .		22
126	Mathematical Modelling and Sensitivity Analysis of Multipolar Radiofrequency Ablation in the Spine. IFAC-PapersOnLine, 2015, 48, 243-248.	0.9	3

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127	Simple and efficient moving horizon estimation based on the fast gradient method. IFAC-PapersOnLine, 2015, 48, 428-433.	0.9	10
128	A Two-level Approach for Fusing Early Signaling Events and Long Term Cellular Responses. IFAC-PapersOnLine, 2015, 48, 1228-1233.	0.9	3
129	Predictive Control in the Era of Networked Control and Communication - a Perspective. IFAC-PapersOnLine, 2015, 48, 322-331.	0.9	3
130	Scenario-based Model Predictive Control: Recursive Feasibility and Stability. IFAC-PapersOnLine, 2015, 48, 50-56.	0.9	40
131	Unraveling Apoptosis Signalling using Linear Control Methods: Linking the Loop Gain to Reverting the Decision to Undergo Apoptosis. IFAC-PapersOnLine, 2015, 48, 954-959.	0.9	0
132	ℓ ₁ -based approaches to determining guaranteed consistent and inconsistent parameter sets. , 2015, , .		1
133	On the effect of enforcing stability in model predictive control for gust load alleviation. , 2015, , .		4
134	Self-triggered, prediction-based control of Lipschitz nonlinear systems. , 2015, , .		3
135	Detection and isolation of parametric faults in hydraulic pumps using a set-based approach and quantitative“qualitative fault specifications. Control Engineering Practice, 2015, 40, 61-70.	5.5	19
136	Parallel and distributed random coordinate descent method for convex error bound minimization. , 2015, , .		1
137	Discrete-time robust model predictive control for continuous-time nonlinear systems. , 2015, , .		23
138	Robust output feedback model predictive control using reduced order models. IFAC-PapersOnLine, 2015, 48, 1008-1014.	0.9	14
139	Guaranteed active fault diagnosis for uncertain nonlinear systems. , 2014, , .		12
140	Set-based state of charge estimation for lithium-ion batteries. , 2014, , .		6
141	Modellbasierte Zustandsschätzung für Lithium-Ionen-Batterien. Automatisierungstechnik, 2014, 62, 296-311.	0.8	1
142	On self-triggered reduced-attention control for constrained systems. , 2014, , .		11
143	Fast stochastic model predictive control of high-dimensional systems. , 2014, , .		36
144	Stochastic nonlinear model predictive control with probabilistic constraints. , 2014, , .		138

#	ARTICLE	IF	CITATIONS
145	On MPC based trajectory tracking. , 2014, , .		5
146	Efficient Polynomial-Time Outer Bounds on State Trajectories for Uncertain Polynomial Systems Using Skewed Structured Singular Values. IEEE Transactions on Automatic Control, 2014, 59, 3063-3068.	5.7	15
147	Distributed and Networked Model Predictive Control. , 2014, , 111-167.		3
148	Model-based derivation, analysis and control of unstable microaerobic steady-statesâ€”Considering <i>Rhodospirillum rubrum</i> as an example. Biotechnology and Bioengineering, 2014, 111, 734-747.	3.3	8
149	Constrained reachability and trajectory generation for flat systems. Automatica, 2014, 50, 1151-1159.	5.0	28
150	Input design for guaranteed fault diagnosis using zonotopes. Automatica, 2014, 50, 1580-1589.	5.0	149
151	Probabilistic and Set-based Model Invalidation and Estimation Using LMIs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4110-4115.	0.4	6
152	Nonlinear model predictive missile control with a stabilising terminal constraint. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 457-462.	0.4	7
153	Optimal Experimental Design for Probabilistic Model Discrimination Using Polynomial Chaos. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4103-4109.	0.4	18
154	Active Fault Diagnosis for Nonlinear Systems with Probabilistic Uncertainties. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7079-7084.	0.4	38
155	Finite-Time Output Energy Measure for Polynomial Systems With Applications in Observability Analysis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2800-2805.	0.4	1
156	Guaranteed Set-based Controller Parameter Estimation for Nonlinear Systems â€” Magnetic Levitation Platform as a Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4650-4655.	0.4	4
157	Robust Nonlinear Model Predictive Control with Constraint Satisfaction: A Relaxation-based Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11073-11079.	0.4	18
158	Stabilization of inexact MPC schemes. , 2014, , .		6
159	Expression of JAK2-V617F Kinase in Myeloid Progenitors and Proerythroblasts Induces Differential Patterns of Hypersensitivity in Activation of Key Signaling Nodes upon Incubation with Low-Dose, Physiologic EPO Concentrations. Blood, 2014, 124, 4573-4573.	1.4	0
160	Predictive path-following control: Concept and implementation for an industrial robot. , 2013, , .		18
161	Nonlinear observability and identifiability of single cells in battery packs. , 2013, , .		7
162	Modeling, parameter identification and model-based control of a lightweight robotic manipulator. , 2013, , .		29

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163	Electrochemical Model Based Observer Design for a Lithium-Ion Battery. IEEE Transactions on Control Systems Technology, 2013, 21, 289-301.	5.2	217
164	Optimization-based Feedforward Path Following for Model Reference Adaptive Control of an Unmanned Helicopter. , 2013, , .		8
165	μAO-MPC: A free code generation tool for embedded real-time linear model predictive control. , 2013, , .		35
166	Analysis and constrained control of nonlinear interconnected systems exploiting positively invariant family of sets. , 2013, , .		5
167	Estimation of consistent parameter sets for continuous-time nonlinear systems using occupation measures and LMI relaxations. , 2013, , .		5
168	Guaranteed diagnosability of parametric faults in nonlinear systems. , 2013, , .		1
169	Design of active inputs for set-based fault diagnosis. , 2013, , .		26
170	Outlier Detection for Polynomial Systems Using Semidefinite Relaxations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 761-766.	0.4	0
171	Structural Problem Reduction for Set-based Fault Diagnosis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 595-600.	0.4	2
172	Distributed Control of Interconnected Systems with Lossy Communication Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 363-368.	0.4	10
173	Stability of NMPC with cyclic horizons. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 809-814.	0.4	17
174	Inner Approximations of Consistent Parameter Sets by Constraint Inversion and Mixed-Integer Programming. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 321-326.	0.4	7
175	Set-point tracking using distributed MPC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 57-62.	0.4	7
176	Certifying Robustness of Separating Inputs and Outputs in Active Fault Diagnosis for Uncertain Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 837-842.	0.4	6
177	Robustness Analysis, Prediction and Estimation for Uncertain Biochemical Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 1-20.	0.4	10
178	Identification of Growth Phases and Influencing Factors in Cultivations with AGE1.HN Cells Using Set-Based Methods. PLoS ONE, 2013, 8, e68124.	2.5	11
179	Outlier analysis in set-based estimation for nonlinear systems using convex relaxations. , 2013, , .		4
180	On efficient predictive control of linear systems subject to quadratic constraints using condensed, structure-exploiting interior point methods. , 2013, , .		11

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181	Integrating Cellular Metabolism into a Multiscale Whole-Body Model. PLoS Computational Biology, 2012, 8, e1002750.	3.2	112
182	Discrete-to-continuous dynamics reconstruction for bilinear systems. , 2012, , .		0
183	Dissipativity-based Distributed Nonlinear Predictive Control for Cascaded Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 439-444.	0.4	8
184	Cooperative Distributed MPC using the Alternating Direction Multiplier Method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 445-450.	0.4	14
185	Robustness-based Model Validation of an Apoptosis Signalling Network Model. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 930-935.	0.4	1
186	Model Predictive Control for Gust Load Alleviation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 27-32.	0.4	28
187	Parallel solution of model predictive control using the alternating direction multiplier method. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 369-374.	0.4	11
188	A Method for the Interpretation of Parametric Faults in Model Based Condition Monitoring. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 618-623.	0.4	2
189	Complete Diagnosability of Abrupt Faults Using Set-based Sensitivities. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 860-865.	0.4	10
190	ADMIT: a toolbox for guaranteed model invalidation, estimation and qualitativeâ€“quantitative modeling. Bioinformatics, 2012, 28, 1290-1291.	4.1	35
191	Implementation aspects of model predictive control for embedded systems. , 2012, , .		38
192	Parameterized Tube Model Predictive Control. IEEE Transactions on Automatic Control, 2012, 57, 2746-2761.	5.7	130
193	Homothetic tube model predictive control. Automatica, 2012, 48, 1631-1638.	5.0	151
194	Combining qualitative information and semiâ€“quantitative data for guaranteed invalidation of biochemical network models. International Journal of Robust and Nonlinear Control, 2012, 22, 1157-1173.	3.7	21
195	Efficient polynomial-time outer bounds on state trajectories for uncertain polynomial systems using skewed structured singular values. , 2011, , .		6
196	Robust suboptimal control over lossy networks using extended input schemes. , 2011, , .		5
197	Fast predictive control of linear, time-invariant systems using an algorithm based on the fast gradient method and augmented Lagrange multipliers. , 2011, , .		9
198	Heterogeneity reduces sensitivity of cell death for TNF-Stimuli. BMC Systems Biology, 2011, 5, 204.	3.0	37

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199	Optimal Exact Path-Following for Constrained Differentially Flat Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9875-9880.	0.4	14
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