Stefan Streif

List of Publications by Year in descending order

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623734 552781 1,121 92 14 26 h-index citations g-index papers 93 93 93 999 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	The Effect of Rearing Scale and Density on the Growth and Nutrient Composition of Hermetia illucens (L.) (Diptera: Stratiomyidae) Larvae. Sustainability, 2022, 14, 1772.	3.2	9
2	Performance bounds of adaptive MPC with bounded parameter uncertainties. European Journal of Control, 2022, 68, 100688.	2.6	1
3	Recursive Feasibility of Continuous-Time Model Predictive Control Without Stabilising Constraints. , 2021, 5, 265-270.		19
4	On Constructive Extractability of Measurable Selectors of Set-Valued Maps. IEEE Transactions on Automatic Control, 2021, 66, 3757-3764.	5.7	1
5	Application of non-destructive sensors and big data analysis to predict physiological storage disorders and fruit firmness in â€~Braeburn' apples. Computers and Electronics in Agriculture, 2021, 183, 106015.	7.7	15
6	Experimental verification of an online traction parameter identification method. Control Engineering Practice, 2021, 113, 104837.	5 . 5	3
7	Epidemic management with admissible and robust invariant sets. PLoS ONE, 2021, 16, e0257598.	2.5	8
8	On Inf-Convolution-Based Robust Practical Stabilization Under Computational Uncertainty. IEEE Transactions on Automatic Control, 2021, 66, 5530-5537.	5.7	3
9	On MPC without terminal conditions for dynamic non-holonomic robots. IFAC-PapersOnLine, 2021, 54, 133-138.	0.9	2
10	Tracking of stabilizing, optimal control in fixed-time based on time-varying objective function. , 2021, , .		1
11	Synthesis of interconnected control systems under reachability specifications. , 2021, , .		O
12	Practical stability analysis of slidingâ€mode control with explicit computation of sampling time. Asian Journal of Control, 2020, 22, 1692-1699.	3.0	2
13	Converse Optimality for Discrete-Time Systems. IEEE Transactions on Automatic Control, 2020, 65, 2257-2264.	5.7	1
14	A comprehensive dynamic growth and development model of Hermetia illucens larvae. PLoS ONE, 2020, 15, e0239084.	2.5	16
15	A Q-learning predictive control scheme with guaranteed stability. European Journal of Control, 2020, 56, 167-178.	2.6	8
16	On maximal robust positively invariant sets in constrained nonlinear systems. Automatica, 2020, 119, 109044.	5.0	12
17	Constructive Analysis of Eigenvalue Problems in Control under Numerical Uncertainty. International Journal of Control, Automation and Systems, 2020, 18, 2177-2185.	2.7	2
18	Maintaining Hard Infection Caps in Epidemics via the Theory of Barriers. IFAC-PapersOnLine, 2020, 53, 16100-16105.	0.9	6

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19	A method of online traction parameter identification and mapping. IFAC-PapersOnLine, 2020, 53, 13933-13938.	0.9	3
20	Transient stability analysis of power grids with admissible and maximal robust positively invariant sets. Automatisierungstechnik, 2020, 68, 1011-1021.	0.8	3
21	Half-Gain Tuning for Active Disturbance Rejection Control. IFAC-PapersOnLine, 2020, 53, 1319-1324.	0.9	6
22	Hierarchical Control of a Quadcopter under Stuck Actuator Fault. IFAC-PapersOnLine, 2020, 53, 4258-4263.	0.9	1
23	On closed-loop stability of model predictive controllers with learning costs. , 2020, , .		3
24	Nonsmooth stabilization and its computational aspects. IFAC-PapersOnLine, 2020, 53, 6370-6377.	0.9	1
25	Reserve Balancing in a Microgrid System for Safety Analysis. IFAC-PapersOnLine, 2020, 53, 13581-13586.	0.9	3
26	A reinforcement learning method with closed-loop stability guarantee for systems with unknown parameters. IFAC-PapersOnLine, 2020, 53, 8157-8162.	0.9	1
27	A reinforcement learning method with closed-loop stability guarantee. IFAC-PapersOnLine, 2020, 53, 8043-8048.	0.9	8
28	Prototypical Description and Controller Design for a Set of Systems Using $\hat{l}^{1/2}$ -gap Based Clustering. IFAC-PapersOnLine, 2020, 53, 4623-4628.	0.9	0
29	A Hierarchical MPC Scheme for Ensembles of Hammerstein Systems. IFAC-PapersOnLine, 2020, 53, 6951-6956.	0.9	0
30	PoCET: a Polynomial Chaos Expansion Toolbox for Matlab. IFAC-PapersOnLine, 2020, 53, 7256-7261.	0.9	6
31	A Hierarchical Architecture for the Coordination of an Ensemble of Steam Generators. IFAC-PapersOnLine, 2020, 53, 11557-11562.	0.9	4
32	Model Predictive Control of a Food Production Unit: A Case Study for Lettuce Production. IFAC-PapersOnLine, 2020, 53, 15771-15776.	0.9	4
33	Sustainability Analysis of Interconnected Food Production Systems via Theory of Barriers. IFAC-PapersOnLine, 2020, 53, 15765-15770.	0.9	1
34	Optimal control of centrifugal spreader. IFAC-PapersOnLine, 2020, 53, 15841-15846.	0.9	2
35	Analysis of extremum value theorems for function spaces in optimal control under numerical uncertainty. IMA Journal of Mathematical Control and Information, 2019, 36, 1015-1032.	1.7	2
36	Adaptive Dynamic Programming Using Lyapunov Function Constraints., 2019, 3, 901-906.		6

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37	Response to IL-6 trans- and IL-6 classic signalling is determined by the ratio of the IL-6 receptor \hat{l}_{\pm} to gp130 expression: fusing experimental insights and dynamic modelling. Cell Communication and Signaling, 2019, 17, 46.	6.5	89
38	Model predictive control with stage cost shaping inspired by reinforcement learning. , 2019, , .		2
39	Design and Validation of a Low Cost Programmable Controlled Environment for Study and Production of Plants, Mushroom, and Insect Larvae. Applied Sciences (Switzerland), 2019, 9, 5166.	2.5	12
40	Adaptive actor-critic structure for parametrized controllers. IFAC-PapersOnLine, 2019, 52, 652-657.	0.9	3
41	A Multirate Hierarchical MPC Scheme for Ensemble Systems. , 2018, , .		6
42	Constrained and Stabilizing Stacked Adaptive Dynamic Programming and a Comparison with Model Predictive Control. , $2018, $, .		6
43	Integer-Free Optimal Scheduling of Smart Appliances. , 2018, , .		0
44	Hierarchical Control with Guaranteed Fault Diagnosability. IFAC-PapersOnLine, 2018, 51, 1105-1110.	0.9	3
45	Addressing infinite-horizon optimization in MPC via Q-learning. IFAC-PapersOnLine, 2018, 51, 60-65.	0.9	11
46	Analysis of the Caratheodory s theorem on dynamical system trajectories under numerical uncertainty. IEEE/CAA Journal of Automatica Sinica, 2018, 5, 787-793.	13.1	3
47	Practical Sample-and-Hold Stabilization of Nonlinear Systems Under Approximate Optimizers. , 2018, 2, 569-574.		8
48	Fast stochastic model predictive control of end-to-end continuous pharmaceutical manufacturing 1 1Financial support from Novartis is acknowledged Computer Aided Chemical Engineering, 2018, , 353-378.	0.5	5
49	Comparison of Different Calibration Methods in a Non-invasive ICP Assessment Model. Acta Neurochirurgica Supplementum, 2018, 126, 79-84.	1.0	7
50	Constructive analysis of control system stability. IFAC-PapersOnLine, 2017, 50, 7467-7474.	0.9	3
51	Optimal traction control for heavy-duty vehicles. Control Engineering Practice, 2017, 69, 99-111.	5.5	20
52	Stacked adaptive dynamic programming with unknown system model. IFAC-PapersOnLine, 2017, 50, 4150-4155.	0.9	6
53	Design of an active noise controller for reduction of tire/road interaction noise in environmentally friendly vehicles., 2017,,.		4
54	Set-based Experiment Design for Model Discrimination Using Bilevel Optimization. IFAC-PapersOnLine, 2016, 49, 295-299.	0.9	1

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55	Experimental results of slip control with a fuzzy-logic-assisted unscented Kalman filter for state estimation. , $2016, , .$		6
56	Robustness analysis, prediction, and estimation for uncertain biochemical networks: An overview. Journal of Process Control, 2016, 42, 14-34.	3.3	29
57	A Probabilistic Approach to Robust Optimal Experiment Design with Chance Constraints. IFAC-PapersOnLine, 2015, 48, 100-105.	0.9	30
58	Controller Verification and Parametrization Subject to Quantitative and Qualitative Requirements. IFAC-PapersOnLine, 2015, 48, 1174-1179.	0.9	7
59	Stability for receding-horizon stochastic model predictive control., 2015, , .		21
60	A Two-level Approach for Fusing Early Signaling Events and Long Term Cellular Responses. IFAC-PapersOnLine, 2015, 48, 1228-1233.	0.9	3
61	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
62	Guaranteed active fault diagnosis for uncertain nonlinear systems. , 2014, , .		12
63	Set-based state of charge estimation for lithium-ion batteries. , 2014, , .		6
64	Modellbasierte ZustandsschÃtzung für Lithium-Ionen-Batterien. Automatisierungstechnik, 2014, 62, 296-311.	0.8	1
65	Fast stochastic model predictive control of high-dimensional systems. , 2014, , .		36
66	Stochastic nonlinear model predictive control with probabilistic constraints., 2014,,.		138
67	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
68	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
69	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
70	Guaranteed Set-based Controller Parameter Estimation for Nonlinear Systems – Magnetic Levitation Platform as a Case Study. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4650-4655.	0.4	4
71	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
72	Nonlinear observability and identifiability of single cells in battery packs. , 2013, , .		7

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73	Estimation of consistent parameter sets for continuous-time nonlinear systems using occupation measures and LMI relaxations. , 2013 , , .		5
74	Guaranteed diagnosability of parametric faults in nonlinear systems. , 2013, , .		1
75	Structural Problem Reduction for Set-based Fault Diagnosis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 595-600.	0.4	2
76	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
77	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
78	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
79	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
80	Outlier analysis in set-based estimation for nonlinear systems using convex relaxations. , 2013, , .		4
81	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
82	ADMIT: a toolbox for guaranteed model invalidation, estimation and qualitative–quantitative modeling. Bioinformatics, 2012, 28, 1290-1291.	4.1	35
83	Photonic Crystal Light Collectors in Fish Retina Improve Vision in Turbid Water. Science, 2012, 336, 1700-1703.	12.6	71
84	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
85	A predictive computational model of the kinetic mechanism of stimulus-induced transducer methylation and feedback regulation through CheY in archaeal phototaxis and chemotaxis. BMC Systems Biology, 2010, 4, 27.	3.0	11
86	A comparative study of stochastic analysis techniques. , 2010, , .		10
87	Quantitative analysis of signal transduction in motile and phototactic cells by computerized light stimulation and model based tracking. Review of Scientific Instruments, 2009, 80, 023709.	1.3	6
88	Identification of Archaea-specific chemotaxis proteins which interact with the flagellar apparatus. BMC Microbiology, 2009, 9, 56.	3.3	76
89	Commutativity of Immersion and Linearization. IEEE Transactions on Automatic Control, 2009, 54, 826-829.	5.7	4
90	Flagellar Rotation in the Archaeon Halobacterium salinarum Depends on ATP. Journal of Molecular Biology, 2008, 384, 1-8.	4.2	76

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91	Commutativity of immersion and linearization. , 2007, , .		O
92	A constructive version of the extremum value theorem for spaces of vector-valued functions. Journal of Logic and Analysis, 0, , .	0.5	2