

Simone Baldi

List of Publications by Year in descending order

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179
papers

4,118
citations

117625

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times ranked

3005
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive Prescribed Performance Asymptotic Tracking for High-Order Odd-Rational-Power Nonlinear Systems. IEEE Transactions on Automatic Control, 2023, 68, 1047-1053.	5.7	31
2	A Fixed-Wing UAV Formation Algorithm Based on Vector Field Guidance. IEEE Transactions on Automation Science and Engineering, 2023, 20, 179-192.	5.2	10
3	On Structural and Safety Properties of Head-to-Tail String Stability in Mixed Platoons. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 6614-6626.	8.0	7
4	Leaderless Consensus of Heterogeneous Multiple Euler-Lagrange Systems With Unknown Disturbance. IEEE Transactions on Automatic Control, 2023, 68, 2399-2406.	5.7	16
5	On Training Traffic Predictors via Broad Learning Structures: A Benchmark Study. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 749-758.	9.3	17
6	Adaptation to Unknown Leader Velocity in Vector-Field UAV Formation. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 473-484.	4.7	10
7	Finite-Time Fuzzy Adaptive Constrained Tracking Control for Hypersonic Flight Vehicles With Singularity-Free Switching. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1594-1605.	5.8	50
8	A Separation-Based Methodology to Consensus Tracking of Switched High-Order Nonlinear Multiagent Systems. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 5467-5479.	11.3	71
9	An Adaptive Control Framework for Underactuated Switched Euler-Lagrange Systems. IEEE Transactions on Automatic Control, 2022, 67, 4202-4209.	5.7	24
10	Distributed Adaptive Optimization With Weight-Balancing. IEEE Transactions on Automatic Control, 2022, 67, 2068-2075.	5.7	16
11	Unsupervised detection of botnet activities using frequent pattern tree mining. Complex & Intelligent Systems, 2022, 8, 761-769.	6.5	4
12	Eligibility traces and forgetting factor in recursive least-squares-based temporal difference. International Journal of Adaptive Control and Signal Processing, 2022, 36, 334-353.	4.1	2
13	An Adaptive Disturbance Decoupling Perspective to Longitudinal Platooning. , 2022, 6, 668-673.		10
14	Consensus in High-Power Multiagent Systems With Mixed Unknown Control Directions via Hybrid Nussbaum-Based Control. IEEE Transactions on Cybernetics, 2022, 52, 5184-5196.	9.5	76
15	A Hybrid Recursive Implementation of Broad Learning With Incremental Features. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1650-1662.	11.3	12
16	On Distributed Implementation of Switch-Based Adaptive Dynamic Programming. IEEE Transactions on Cybernetics, 2022, 52, 7218-7224.	9.5	11
17	Distributed Output Feedback Funnel Control for Uncertain Nonlinear Multiagent Systems. IEEE Transactions on Fuzzy Systems, 2022, 30, 3708-3721.	9.8	15
18	Distributed Time-Varying Optimization of Second-Order Multiagent Systems Under Limited Interaction Ranges. IEEE Transactions on Cybernetics, 2022, 52, 13874-13886.	9.5	9

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19	Impact of Network Topology on the Resilience of Vehicle Platoons. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15166-15177.	8.0	18
20	Special Issue on "Recent Advances in Robust Adaptive Control". International Journal of Adaptive Control and Signal Processing, 2022, 36, 178-179.	4.1	2
21	Distributed Actor-Critic Algorithms for Multiagent Reinforcement Learning Over Directed Graphs. IEEE Transactions on Neural Networks and Learning Systems, 2022, PP, 1-12.	11.3	3
22	Logic-based distributed switching control for agents in power-chained form with multiple unknown control directions. Automatica, 2022, 137, 110143.	5.0	39
23	Adaptive Integral Sliding Mode Control in the Presence of State-Dependent Uncertainty. IEEE/ASME Transactions on Mechatronics, 2022, 27, 3885-3895.	5.8	11
24	A Review of Mathematical Models of Building Physics and Energy Technologies for Environmentally Friendly Integrated Energy Management Systems. Buildings, 2022, 12, 238.	3.1	12
25	Adaptive Vector Field Guidance Without <i>a Priori</i> Knowledge of Course Dynamics and Wind. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4597-4607.	5.8	12
26	Distributed Disturbance-and-Leader Estimation for Controlling Networks of Nonholonomic Mobile Robots. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3762-3771.	5.4	8
27	Output-Feedback Design of Longitudinal Platooning With Adaptive Disturbance Decoupling. , 2022, 6, 3104-3109.		5
28	Funnel asymptotic tracking of nonlinear multi-agent systems with unmatched uncertainties. Systems and Control Letters, 2022, 167, 105313.	2.3	3
29	The Set-Invariance Paradigm in Fuzzy Adaptive DSC Design of Large-Scale Nonlinear Input-Constrained Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1035-1045.	9.3	52
30	Adaptive Asymptotic Tracking for a Class of Uncertain Switched Positive Compartmental Models With Application to Anesthesia. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4936-4942.	9.3	21
31	A Distributed Indirect Adaptive Approach to Cooperative Tracking in Networks of Uncertain Single-Input Single-Output Systems. IEEE Transactions on Automatic Control, 2021, 66, 4844-4851.	5.7	17
32	Traffic Flow on a Ring With a Single Autonomous Vehicle: An Interconnected Stability Perspective. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 4998-5008.	8.0	47
33	A Switching Control Perspective on the Offshore Construction Scenario of Heavy-Lift Vessels. IEEE Transactions on Control Systems Technology, 2021, 29, 470-477.	5.2	21
34	A New Adaptive-Robust Design for Time Delay Control Under State-Dependent Stability Condition. IEEE Transactions on Control Systems Technology, 2021, 29, 420-427.	5.2	56
35	Establishing Platoons of Bidirectional Cooperative Vehicles With Engine Limits and Uncertain Dynamics. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2679-2691.	8.0	54
36	Lyapunov-Equation-Based Stability Analysis for Switched Linear Systems and Its Application to Switched Adaptive Control. IEEE Transactions on Automatic Control, 2021, 66, 2250-2256.	5.7	40

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37	Adaptive Leader-Follower Synchronization Over Heterogeneous and Uncertain Networks of Linear Systems Without Distributed Observer. IEEE Transactions on Automatic Control, 2021, 66, 1925-1931.	5.7	25
38	Artificial-Delay Adaptive Control for Underactuated Euler-Lagrange Robotics. IEEE/ASME Transactions on Mechatronics, 2021, 26, 3064-3075.	5.8	33
39	Robustifying Dynamic Positioning of Crane Vessels for Heavy Lifting Operation. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 753-765.	13.1	12
40	A Directed Spanning Tree Adaptive Control Solution to Time-Varying Formations. IEEE Transactions on Control of Network Systems, 2021, 8, 690-701.	3.7	15
41	Wide-Area Damping Control Resilience Towards Cyber-Attacks: A Dynamic Loop Approach. IEEE Transactions on Smart Grid, 2021, 12, 3438-3447.	9.0	27
42	Stable Adaptation in Multi-Area Load Frequency Control Under Dynamically-Changing Topologies. IEEE Transactions on Power Systems, 2021, 36, 2946-2956.	6.5	18
43	Cyclic Communication in Adaptive Strategies to Platooning: The Case of Synchronized Merging. IEEE Transactions on Intelligent Vehicles, 2021, 6, 490-500.	12.7	21
44	Plug-and-play adaptation in autopilot architectures for unmanned aerial vehicles. , 2021, , .		1
45	Enabling Optimal Energy Management with Minimal IoT Requirements: A Legacy A/C Case Study. Energies, 2021, 14, 7910.	3.1	7
46	Adaptive Artificial Time Delay Control for Bipedal Walking with Robustification to State-dependent Constraint Forces. , 2021, , .		3
47	A Hybrid Distributed Strategy for Robust Global Phase Synchronization of Second-Order Kuramoto Oscillators. , 2021, , .		1
48	Distributed Adaptive Consensus via Event-triggered Sampling: An Edge-based Method. , 2021, , .		1
49	Adaptive Synchronization of Uncertain Complex Networks under State-dependent a priori Interconnections. , 2021, , .		2
50	Nonlinear Systems With Uncertain Periodically Disturbed Control Gain Functions: Adaptive Fuzzy Control With Invariance Properties. IEEE Transactions on Fuzzy Systems, 2020, 28, 746-757.	9.8	33
51	Leaderless Synchronization of Heterogeneous Oscillators by Adaptively Learning the Group Model. IEEE Transactions on Automatic Control, 2020, 65, 412-418.	5.7	24
52	A Switching-Based Adaptive Dynamic Programming Method to Optimal Traffic Signaling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4160-4170.	9.3	27
53	Addressing Unmodeled Path-Following Dynamics via Adaptive Vector Field: A UAV Test Case. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1613-1622.	4.7	52
54	Distributed Reinforcement Learning Algorithm for Dynamic Economic Dispatch With Unknown Generation Cost Functions. IEEE Transactions on Industrial Informatics, 2020, 16, 2258-2267.	11.3	66

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55	On adaptive sliding mode control without a priori bounded uncertainty. Automatica, 2020, 111, 108650.	5.0	140
56	Towards structure-independent stabilization for uncertain underactuated Euler–Lagrange systems. Automatica, 2020, 113, 108775.	5.0	33
57	Control for hybrid systems: Applications and methods for adaptation and optimality. Optimal Control Applications and Methods, 2020, 41, 1811-1812.	2.1	0
58	A Semi-Physical Platform for Guidance and Formations of Fixed-Wing Unmanned Aerial Vehicles. Sensors, 2020, 20, 1136.	3.8	12
59	The issue of transients in leakage-based model reference adaptive control of switched linear systems. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100885.	3.5	10
60	Neuro-Adaptive Cooperative Tracking Rendezvous of Nonholonomic Mobile Robots. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3167-3171.	3.0	7
61	On vanishing gains in robust adaptation of switched systems: A new leakage-based result for a class of Euler–Lagrange dynamics. Systems and Control Letters, 2020, 144, 104773.	2.3	11
62	On recursive temporal difference and eligibility traces. , 2020, , .		1
63	Aerial Transportation of Unknown Payloads: Adaptive Path Tracking for Quadrotors. , 2020, , .		19
64	Fuzzy Adaptive Tracking Control of High-order Nonlinear Dynamics with Mixed Control Directions. , 2020, , .		1
65	Towards adaptive autopilots for fixed-wing unmanned aerial vehicles. , 2020, , .		9
66	The problem of reliable design of vector-field path following in the presence of uncertain course dynamics. IFAC-PapersOnLine, 2020, 53, 9399-9404.	0.9	9
67	Robust Adaptation in Dynamically Switching Load Frequency Control. IFAC-PapersOnLine, 2020, 53, 13460-13465.	0.9	1
68	Adaptive strategies to platoon merging with vehicle engine uncertainty. IFAC-PapersOnLine, 2020, 53, 15065-15070.	0.9	11
69	Optimal Tracking Strategies for Uncertain Ensembles of Thermostatically Controlled Loads. , 2020, , .		0
70	Model+Learning-based Optimal Control: an Inverted Pendulum Study. , 2020, , .		1
71	Output Synchronization of Unknown Heterogeneous Agents via Distributed Model Reference Adaptation. IEEE Transactions on Control of Network Systems, 2019, 6, 515-525.	3.7	32
72	Overcoming the Underestimation and Overestimation Problems in Adaptive Sliding Mode Control. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2031-2039.	5.8	60

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73	On reduced-complexity robust adaptive control of switched Euler-Lagrange systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2019, 34, 226-237.	3.5	22
74	Adaptive hybrid synchronisation in uncertain Kuramoto networks with limited information. <i>IET Control Theory and Applications</i> , 2019, 13, 1229-1238.	2.1	8
75	Guest Editorial: Recent Advances in Control and Verification for Hybrid Systems. <i>IET Control Theory and Applications</i> , 2019, 13, 1219-1221.	2.1	0
76	Integrated condition-based track maintenance planning and crew scheduling of railway networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2019, 105, 359-384.	7.6	30
77	Passive versus active learning in operation and adaptive maintenance of Heating, Ventilation, and Air Conditioning. <i>Applied Energy</i> , 2019, 252, 113478.	10.1	18
78	A software-in-the-loop implementation of adaptive formation control for fixed-wing UAVs. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2019, 6, 1230-1239.	13.1	35
79	An adaptive approach to longitudinal platooning with heterogeneous vehicle saturations. <i>IFAC-PapersOnLine</i> , 2019, 52, 7-12.	0.9	7
80	Observer-based Robust Control for Dynamic Positioning of Large-Scale Heavy Lift Vessels. <i>IFAC-PapersOnLine</i> , 2019, 52, 138-143.	0.9	8
81	A New Continuous-Time Stability Perspective of Time-Delay Control: Introducing a State-Dependent Upper Bound Structure. , 2019, 3, 475-480.		30
82	Distributed Chance-Constrained Model Predictive Control for Condition-Based Maintenance Planning for Railway Infrastructures. , 2019, , 533-554.		0
83	A Simultaneous Adaptation Law for a Class of Nonlinearly Parametrized Switched Systems. , 2019, 3, 487-492.		31
84	Adaptive stabilization of impulsive switched linear time-delay systems: A piecewise dynamic gain approach. <i>Automatica</i> , 2019, 103, 322-329.	5.0	54
85	Joint estimation of vessel position and mooring stiffness during offshore crane operations. <i>Automation in Construction</i> , 2019, 101, 218-226.	9.8	17
86	Global Frequency Synchronization over Networks of Uncertain Second-Order Kuramoto Oscillators via Distributed Adaptive Tracking. , 2019, , .		7
87	On a weaker notion of ring stability for mixed traffic with human-driven and autonomous vehicles. , 2019, , .		6
88	The Role of Uncertainty in Adaptive Control of Switched Euler-Lagrange Systems. , 2019, , .		4
89	The Non-Smoothness Problem in Disturbance Observer Design: A Set-Invariance-Based Adaptive Fuzzy Control Method. <i>IEEE Transactions on Fuzzy Systems</i> , 2019, 27, 598-604.	9.8	48
90	Adaptive hierarchical formation control for uncertain Euler-Lagrange systems using distributed inverse dynamics. <i>European Journal of Control</i> , 2019, 48, 52-65.	2.6	20

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91	Adaptive tracking of switched nonlinear systems with prescribed performance using a reference-dependent reparametrisation approach. <i>International Journal of Control</i> , 2019, 92, 1243-1251.	1.9	5
92	A Simulation-Based Traffic Signal Control for Congested Urban Traffic Networks. <i>Transportation Science</i> , 2019, 53, 6-20.	4.4	39
93	Adaptive synchronization of unknown heterogeneous agents: An adaptive virtual model reference approach. <i>Journal of the Franklin Institute</i> , 2019, 356, 935-955.	3.4	40
94	Broad Learning for Optimal Short-Term Traffic Flow Prediction. <i>Lecture Notes in Computer Science</i> , 2019, , 232-239.	1.3	4
95	Model Reference Switched Adaptive Control with Nonnegative Orthant State Constraints. , 2019, , .		0
96	Cooperative Output Regulation of Heterogeneous Unknown Systems via Passification-Based Adaptation. , 2018, 2, 151-156.		12
97	Fault detection and identification for a class of continuous piecewise affine systems with unknown subsystems and partitions. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 980-993.	4.1	13
98	Reachable set estimation for switched linear systems with dwell-time switching. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018, 29, 20-33.	3.5	31
99	An Adaptive Learning-Based Approach for Nearly Optimal Dynamic Charging of Electric Vehicle Fleets. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2018, 19, 2066-2075.	8.0	74
100	An adaptive design for quantized feedback control of uncertain switched linear systems. <i>International Journal of Adaptive Control and Signal Processing</i> , 2018, 32, 665-680.	4.1	12
101	An Adaptive Switched Control Approach to Heterogeneous Platooning With Intervehicle Communication Losses. <i>IEEE Transactions on Control of Network Systems</i> , 2018, 5, 1434-1444.	3.7	148
102	Monitoring energy efficiency of condensing boilers via hybrid first-principle modelling and estimation. <i>Energy</i> , 2018, 142, 121-129.	8.8	29
103	A DSC method for strict-feedback nonlinear systems with possibly unbounded control gain functions. <i>Neurocomputing</i> , 2018, 275, 1383-1392.	5.9	26
104	Robust adaptive tracking control of uncertain slowly switched linear systems. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018, 27, 1-12.	3.5	47
105	A novel Lyapunov function for a non-weighted L_2 gain of asynchronously switched linear systems. <i>Automatica</i> , 2018, 87, 310-317.	5.0	110
106	A University Building Test Case for Occupancy-Based Building Automation. <i>Energies</i> , 2018, 11, 3145.	3.1	5
107	Real-Life Implementation of a GPS-Based Path-Following System for an Autonomous Vehicle. <i>Sensors</i> , 2018, 18, 3940.	3.8	11
108	Adaptive state-feedback synchronization with distributed input: the cyclic case. <i>IFAC-PapersOnLine</i> , 2018, 51, 1-6.	0.9	4

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109	Platooning merging maneuvers in the presence of parametric uncertainty. IFAC-PapersOnLine, 2018, 51, 148-153.	0.9	10
110	An adaptive approach to zooming-based control for uncertain systems with input quantization. , 2018, , .		3
111	Automating occupant-building interaction via smart zoning of thermostatic loads: A switched self-tuning approach. Applied Energy, 2018, 231, 1246-1258.	10.1	79
112	Adaptive synchronization in networks with heterogeneous uncertain Kuramoto-like units. , 2018, , .		4
113	A distributed disagreement-based protocol for synchronization of uncertain heterogeneous agents. , 2018, , .		4
114	Hybrid Adaptive Chassis Control for Vehicle Lateral Stability in the Presence of Uncertainty. , 2018, , .		7
115	Beyond the Waterbed Effect: Development of Fractional Order CRONE Control with Non-Linear Reset. , 2018, , .		7
116	Switched Adaptive Control of Air Handling Units With Discrete and Saturated Actuators. , 2018, 2, 417-422.		19
117	Adaptive pulse width modulation design for power converters based on affine switched systems. Nonlinear Analysis: Hybrid Systems, 2018, 30, 306-322.	3.5	24
118	Grid-Connected Microgrids: Demand Management via Distributed Control and Human-in-the-Loop Optimization. , 2018, , 315-344.		50
119	Adaptive Tracking Control of Switched Linear Systems Using Mode-Dependent Average Dwell Time. , 2018, , .		1
120	Robust Adaptive Stabilization of Switched Higher-Order Planar Nonlinear Systems with Unknown Time-Varying Delays. , 2018, , .		1
121	Real-time monitoring energy efficiency and performance degradation of condensing boilers. Energy Conversion and Management, 2017, 136, 329-339.	9.2	58
122	Adaptive Optimal Control for Large-Scale Nonlinear Systems. IEEE Transactions on Automatic Control, 2017, 62, 5567-5577.	5.7	31
123	Adaptive Asymptotic Tracking Control of Uncertain Time-Driven Switched Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 5802-5807.	5.7	106
124	Real-time Performance and Safety Validation of an Integrated Vehicle Dynamic Control Strategy. IFAC-PapersOnLine, 2017, 50, 13854-13859.	0.9	8
125	Multi-level condition-based maintenance planning for railway infrastructures " A scenario-based chance-constrained approach. Transportation Research Part C: Emerging Technologies, 2017, 84, 92-123.	7.6	52
126	On robust adaptive control of switched linear systems. , 2017, , .		2

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127	Adaptive path following for Unmanned Aerial Vehicles in time-varying unknown wind environments. , 2017, , .		10
128	A cognitive stochastic approximation approach to optimal charging schedule in electric vehicle stations. , 2017, , .		10
129	Stabilization of switched linear systems using quantized output feedback via dwell-time switching. , 2017, , .		3
130	Integration of auto-steering with adaptive cruise control for improved cornering behaviour. IET Intelligent Transport Systems, 2017, 11, 667-675.	3.0	23
131	Adaptive control of interconnected networked systems with application to heterogeneous platooning. , 2017, , .		13
132	A model for controlled dosing of femto-litre volume liquids using hollow microcantilever. IFAC-PapersOnLine, 2017, 50, 15542-15547.	0.9	0
133	An Adaptive Approach to Cooperative Longitudinal Platooning of Heterogeneous Vehicles with Communication Losses * *The research leading to these results has been partially funded by the European Commission FP7-ICT-2013.3.4, Advanced computing, embedded and control systems, under contract #611538 (LOCAL4GLOBAL) and by the China Scholarship Council (CSC), File No.20146160098. IFAC-PapersOnLine, 2017, 50, 1252-1257.	0.9	4
134	A Message Passing Algorithm for Automatic Synthesis of Probabilistic Fault Detectors from Building Automation Ontologies. IFAC-PapersOnLine, 2017, 50, 4184-4190.	0.9	15
135	Towards tactical behaviour planning under uncertainties for automated vehicles in urban scenarios. , 2017, , .		13
136	Adaptive optimization for smart operation of cyber-physical systems: A thermostatic zoning test case. , 2017, , .		0
137	Optimal model distributions in supervisory adaptive control. IET Control Theory and Applications, 2017, 11, 1380-1387.	2.1	1
138	Algorithms for Optimal Model Distributions in Adaptive Switching Control Schemes. Machines, 2016, 4, 7.	2.2	1
139	A Novel Modelling Approach for Condensing Boilers Based on Hybrid Dynamical Systems. Machines, 2016, 4, 10.	2.2	24
140	An iterative Sum-of-Squares optimization for static output feedback of polynomial systems. , 2016, , .		2
141	Integrated dynamic modelling and multivariable control of HVAC components. , 2016, , .		4
142	Optimal nonlinear solutions for reverse Stackelberg games with incomplete information. , 2016, , .		0
143	Control configurations in distillation columns: A comparative study. , 2016, , .		1
144	Model Predictive Control for rail condition-based maintenance: A multilevel approach. , 2016, , .		8

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145	Online policy iterations for optimal control of input-saturated systems. , 2016, , .		2
146	Adaptive optimization for active queue management supporting TCP flows. , 2016, , .		3
147	A supervisory approach to microgrid demand response and climate control. , 2016, , .		2
148	Online identification of continuous bimodal and trimodal piecewise affine systems. , 2016, , .		4
149	An integrated control-oriented modelling for HVAC performance benchmarking. Journal of Building Engineering, 2016, 6, 262-273.	3.4	36
150	Stability Margins in Adaptive Mixing Control Via a Lyapunov-Based Switching Criterion. IEEE Transactions on Automatic Control, 2016, 61, 1194-1207.	5.7	16
151	Dual estimation: Constructing building energy models from data sampled at low rate. Applied Energy, 2016, 169, 81-92.	10.1	52
152	Occupancy-based demand response and thermal comfort optimization in microgrids with renewable energy sources and energy storage. Applied Energy, 2016, 163, 93-104.	10.1	281
153	Piecewise polynomial policy iterations for synthesis of optimal control laws in input-saturated systems. , 2015, , .		3
154	Simulation-based synthesis for approximately optimal urban traffic light management. , 2015, , .		14
155	Joint energy demand and thermal comfort optimization in photovoltaic-equipped interconnected microgrids. Energy Conversion and Management, 2015, 101, 352-363.	9.2	60
156	Model-based and model-free "plug-and-play" building energy efficient control. Applied Energy, 2015, 154, 829-841.	10.1	60
157	Intelligent energy and thermal comfort management in grid-connected microgrids with heterogeneous occupancy schedule. Applied Energy, 2015, 149, 194-203.	10.1	132
158	Proactive control for solar energy exploitation: A german high-inertia building case study. Applied Energy, 2015, 155, 409-420.	10.1	39
159	Multi-objective control strategy for energy management of grid-connected heterogeneous microgrids. , 2015, , .		2
160	Model Predictive Control for Maintenance Operations Planning of Railway Infrastructures. Lecture Notes in Computer Science, 2015, , 673-688.	1.3	3
161	A "plug and play" computationally efficient approach for control design of large-scale nonlinear systems using cosimulation: a combination of two "ingredients". IEEE Control Systems, 2014, 34, 56-71.	0.8	47
162	Convex Design Control for Practical Nonlinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1692-1705.	5.7	24

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163	A "plug-n-play" computationally efficient approach for control design of large-scale nonlinear systems using co-simulation. , 2013, , .		14
164	Semiglobal stabilization of nonlinear uncertain systems via a Lyapunov-based switching logic. , 2013, , .		0
165	Multiple Estimation Architecture in Discrete-Time Adaptive Mixing Control. Machines, 2013, 1, 33-49.	2.2	1
166	A scalable iterative convex design for nonlinear systems. , 2012, , .		1
167	Stability margins in adaptive mixing control via a Lyapunov-based switching criterion. , 2012, , .		1
168	Multiple Model Adaptive Mixing Control: The Discrete-Time Case. IEEE Transactions on Automatic Control, 2012, 57, 1040-1045.	5.7	32
169	Adaptive mixing control with multiple estimators. International Journal of Adaptive Control and Signal Processing, 2012, 26, 800-820.	4.1	24
170	Multi-model unfalsified switching control of uncertain multivariable systems. International Journal of Adaptive Control and Signal Processing, 2012, 26, 705-722.	4.1	20
171	Automatic Tuning of the Internal Position Control of an Adaptive Secondary Mirror. European Journal of Control, 2011, 17, 273-289.	2.6	10
172	Nonlinear control of large scale complex systems using convex optimization tools and self-adaptation. , 2011, , .		3
173	Multi-Model Adaptive Switching Control with Fine Controller Tuning. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 374-379.	0.4	4
174	Discrete-time Adaptive Mixing Control with Stability-preserving Interpolation: the Output Regulation Problem. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 102-107.	0.4	1
175	Multi-model unfalsified adaptive switching control: Test functionals for stability and performance. International Journal of Adaptive Control and Signal Processing, 2011, 25, 593-612.	4.1	18
176	Multiple-model adaptive switching control for uncertain multivariable systems. , 2011, , .		2
177	Multi-model unfalsified adaptive switching supervisory control. Automatica, 2010, 46, 249-259.	5.0	109
178	Evaluation of identifier based and "non-identifier based adaptive supervisory" control using a benchmark example. , 2010, , .		4
179	Numerical optimization-based extremum seeking control of a class of constrained nonlinear systems via finite-time state transition. International Journal of Robust and Nonlinear Control, 0, , .	3.7	0