W P M H Heemels

List of Publications by Year
in descending order

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Version: 2024-02-01

376 papers	16,220 citations	29994 54 h-index	22764 112 g-index
377 all docs	377 docs citations	377 times ranked	6100 citing authors

#	Article	IF	Citations
1	Explaining the â€œMysteryâ€•of Periodicity in Inter-Transmission Times in Two-Dimensional Event-Triggered Controlled Systems. IEEE Transactions on Automatic Control, 2023, 68, 912-927.	3.6	6
2	Reset PID Design for Motion Systems With Stribeck Friction. IEEE Transactions on Control Systems Technology, 2022, 30, 294-310.	3.2	8
3	Filtered Split-Path Nonlinear Integrator: A Hybrid Controller for Transient Performance Improvement. IEEE Transactions on Control Systems Technology, 2022, 30, 451-463.	3.2	3
4	Optimal Irrigation Allocation for Large-Scale Arable Farming. IEEE Transactions on Control Systems Technology, 2022, 30, 1484-1493.	3.2	1
5	Stability and performance analysis of hybrid integratorâ€“gain systems: A linear matrix inequality approach. Nonlinear Analysis: Hybrid Systems, 2022, 45, 101192.	2.1	2
6	PODâ€“Kalman filtering for improving noninvasive 3D temperature monitoring in MRâ€guided hyperthermia. Medical Physics, 2022, 49, 4955-4970.	1.6	3
7	Offset-Free Model Predictive Temperature Control for Ultrasound-Based Hyperthermia Cancer Treatments. IEEE Transactions on Control Systems Technology, 2021, 29, 2351-2365.	3.2	9
8	An Average Allowable Transmission Interval Condition for the Stability of Networked Control Systems. IEEE Transactions on Automatic Control, 2021, 66, 2526-2541.	3.6	15
9	$mathcal {L}_2$-Gain Analysis of Periodic Event-Triggered Control and Self-Triggered Control Using Lifting. IEEE Transactions on Automatic Control, 2021, 66, 3749-3756.	3.6	14
10	Data science at farm level: Explaining and predicting within-farm variability in potato growth and yield. European Journal of Agronomy, 2021, 123, 126220.	1.9	11
11	Control Allocation for an Industrial High-Precision Transportation and Positioning System. IEEE Transactions on Control Systems Technology, 2021, 29, 876-883.	3.2	6
12	Overcoming Performance Limitations of Linear Control with Hybrid Integrator-Gain Systems. IFAC-PapersOnLine, 2021, 54, 289-294.	0.5	6
13	Visualization of thermal washout due to spatiotemporally heterogenous perfusion in the application of a model-based control algorithm for MR-HIFU mediated hyperthermia. International Journal of Hyperthermia, 2021, 38, 1174-1187.	1.1	9
14	Event-Triggered and Self-Triggered Control. , 2021, , 724-730.		7
15	Constraint-adaptive MPC for large-scale systems: Satisfying state constraints without imposing them. IFAC-PapersOnLine, 2021, 54, 232-237.	0.5	1
16	Opportunities for control engineering in arable precision agriculture. Annual Reviews in Control, 2021, 51, 47-55.	4.4	9
17	A Closed-Loop Perspective on Fault Detection for Precision Motion Control: With Application to an Overactuated System. , 2021, , .		3
18	An <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e171" altimg="si10.svg"><mml:msub><mml:mrow><mml:mi>â„“</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> event-triggered control policy for linear systems. Automatica, 2021, 125, 109412.	3.0	6

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19	Closed-loop Aspects in MIMO Fault Diagnosis with Application to Precision Mechatronics. , 2021, , .		3
20	On the Equivalence of Extended and Oblique Projected Dynamics with Applications to Hybrid Integrator-Gain Systems. , 2021, , .		3
21	Urgency-aware optimal routing in repeated games through artificial currencies. European Journal of Control, 2021, 62, 22-32.	1.6	8
22	Projection-based integrators for improved motion control: Formalization, well-posedness and stability of hybrid integrator-gain systems. Automatica, 2021, 133, 109830.	3.0	13
23	Novel Bounds on the Probability of Misclassification in Majority Voting: Leveraging the Majority Size. , 2021, 5, 1513-1518.		1
24	A solution to gain loss in hybrid integrator-gain systems. , 2021, , .		1
25	Joint Parameter and State Estimation of Noisy Discrete-Time Nonlinear Systems: A Supervisory Multi-Observer Approach. , 2021, , .		2
26	Constraint Removal for MPC with Performance Preservation and a Hyperthermia Cancer Treatment Case Study. , 2021, , .		2
27	Event-Triggered State Estimation with Multiple Noisy Sensor Nodes. , 2021, , .		4
28	Hybrid Systems with Continuous-time Inputs: Subtleties in Solution Concepts and Existence Results. , 2021, , .		5
29	Event-triggered observer design for linear systems. , 2021, , .		5
30	Beyond Performance/Cost Tradeoffs in Motion Control: A Multirate Feedforward Design With Application to a Dual-Stage Wafer System. IEEE Transactions on Control Systems Technology, 2020, 28, 448-461.	3.2	16
31	Periodic Event-Triggered Control for Nonlinear Networked Control Systems. IEEE Transactions on Automatic Control, 2020, 65, 620-635.	3.6	104
32	Event- and Deadline-Driven Control of a Self-Localizing Robot With Vision-Induced Delays. IEEE Transactions on Industrial Electronics, 2020, 67, 1212-1221.	5.2	4
33	On the graphical stability of hybrid solutions with non-matching jump times. Automatica, 2020, 111, 108662.	3.0	0
34	Image-based feedback control for drift compensation in an electron microscope. IFAC Journal of Systems and Control, 2020, 11, 100074.	1.1	2
35	Reconfigurable pipelined control systems. IEEE Design and Test, 2020, , 1-1.	1.1	0
36	To stick or to slip: A reset PID control perspective on positioning systems with friction. Annual Reviews in Control, 2020, 49, 37-63.	4.4	17

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37	Oblique Projected Dynamical Systems and Incremental Stability Under State Constraints. , 2020, 4, 1060-1065.		8
38	Hybrid Integrator-Gain Systems: A Remedy for Overshoot Limitations in Linear Control?. , 2020, 4, 1042-1047.		24
39	A unifying event-triggered control framework based on a hybrid small-gain theorem. , 2020, , .		3
40	Event-Triggered Control in Presence of Measurement Noise: A Space-Regularization Approach. , 2020, , .		3
41	Towards the Coarsest Quantized Controller under Denial-of-Service Attacks. IFAC-PapersOnLine, 2020, 53, 3496-3501.	0.5	1
42	Mixed-integer model predictive control for large-area MR-HIFU hyperthermia in cancer therapy. IFAC-PapersOnLine, 2020, 53, 6637-6643.	0.5	1
43	Decision making for autonomous vehicles: Combining safety and optimality. IFAC-PapersOnLine, 2020, 53, 15380-15387.	0.5	1
44	Periodic Event-Triggered Sampling and Dual-Rate Control for a Wireless Networked Control System With Applications to UAVs. IEEE Transactions on Industrial Electronics, 2019, 66, 3157-3166.	5.2	72
45	Reset integral control for improved settling of PID-based motion systems with friction. Automatica, 2019, 107, 483-492.	3.0	29
46	Model-based real-time plasma electron density profile estimation and control on ASDEX Upgrade and TCV. Fusion Engineering and Design, 2019, 147, 111211.	1.0	16
47	Switched LQG control for linear systems with multiple sensing methods. Automatica, 2019, 103, 217-229.	3.0	6
48	Practical Stabilization of Switched Affine Systems With Dwell-Time Guarantees. IEEE Transactions on Automatic Control, 2019, 64, 4811-4817.	3.6	65
49	Event-Triggered Quantized Control for Input-to-State Stabilization of Linear Systems With Distributed Output Sensors. IEEE Transactions on Automatic Control, 2019, 64, 4952-4967.	3.6	41
50	State-feedback event-holding control for nonlinear systems. , 2019, , .		2
51	Hybrid Integral Reset Control with Application to a Lens Motion System. , 2019, , .		2
52	Inter-event Times Analysis for Planar Linear Event-triggered Controlled Systems. , 2019, , .		16
53	Event-Triggered Consensus for Multi-Agent Systems with Guaranteed Robust Positive Minimum Inter-Event Times. , 2019, , .		3
54	Extended Projected Dynamical Systems with Applications to Hybrid Integrator-Gain Systems. , 2019, , .		12

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55	A System-Theoretic Approach to Construct a Banded Null Basis to Efficiently Solve MPC-Based QP Problems. , 2019, , .		4
56	Optimal irrigation management for large-scale arable farming using model predictive control. IFAC-PapersOnLine, 2019, 52, 56-61.	0.5	5
57	Hybrid model formulation and stability analysis of a PID-controlled motion system with Coulomb friction. IFAC-PapersOnLine, 2019, 52, 84-89.	0.5	1
58	Consensus and Reliability: The Case of Two Binary Classifiers. IFAC-PapersOnLine, 2019, 52, 73-78.	0.5	2
59	Hybrid Integrator-Gain System for Active Vibration Isolation with Improved Transient Response. IFAC-PapersOnLine, 2019, 52, 454-459.	0.5	10
60	Model predictive control for MR-HIFU-mediated, uniform hyperthermia. International Journal of Hyperthermia, 2019, 36, 1039-1049.	1.1	18
61	Event-triggered and self-triggered control for linear systems based on reachable sets. Automatica, 2019, 101, 15-26.	3.0	33
62	Observability and Controllability Analysis of Linear Systems Subject to Data Losses. IEEE Transactions on Automatic Control, 2018, 63, 3361-3376.	3.6	28
63	Systematic Model-Based Design and Implementation of Supervisors for Advanced Driver Assistance Systems. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 533-544.	4.7	32
64	Incremental Stability of Hybrid Dynamical Systems. IEEE Transactions on Automatic Control, 2018, 63, 4094-4109.	3.6	10
65	Event-Driven Control With Deadline Optimization for Linear Systems With Stochastic Delays. IEEE Transactions on Control of Network Systems, 2018, 5, 1819-1829.	2.4	4
66	Bandwidth-on-Demand Motion Control. IEEE Transactions on Control Systems Technology, 2018, 26, 265-273.	3.2	5
67	Scheduled Controller Design for Systems With Varying Sensor Configurations: A Frequency-Domain Approach. IEEE Transactions on Control Systems Technology, 2018, 26, 523-534.	3.2	6
68	Riccati-Based Design of Event-Triggered Controllers for Linear Systems With Delays. IEEE Transactions on Automatic Control, 2018, 63, 174-188.	3.6	70
69	Control-oriented modeling of the plasma particle density in tokamaks and application to real-time density profile reconstruction. Fusion Engineering and Design, 2018, 126, 87-103.	1.0	23
70	Co-design of output feedback laws and event-triggering conditions for the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml14" display="inline" overflow="scroll" altimg="si14.gif"><mml:msub><mml:mrow><mml:mi mathvariant="script">L</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>-stabilizat of linear systems. Automatica, 2018, 87, 337-344.	3.0	52
71	Periodic event-triggered output feedback control of nonlinear systems. , 2018, , .		9
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73	POD-Based Recursive Temperature Estimation for MR-Guided RF Hyperthermia Cancer Treatment: A Pilot Study. , 2018, , .		6
74	Control allocation for a high-precision linear transport system. , 2018, , .		2
75	A switched system approach to optimize mixing of fluids. IFAC-PapersOnLine, 2018, 51, 31-36.	0.5	2
76	Offset-free model predictive control for enhancing MR-HIFU hyperthermia in cancer treatment. IFAC-PapersOnLine, 2018, 51, 191-196.	0.5	4
77	Singularly Perturbed Networked Control Systems. IFAC-PapersOnLine, 2018, 51, 106-111.	0.5	5
78	Heterogeneous multi-agent resource allocation through multi-bidding with applications to precision agriculture. IFAC-PapersOnLine, 2018, 51, 194-199.	0.5	7
79	Offset-Free MPC for Resource Sharing on a Nonlinear SCARA Robot. IFAC-PapersOnLine, 2018, 51, 265-272.	0.5	1
80	Periodic event-triggered control of nonlinear systems using overapproximation techniques. Automatica, 2018, 94, 81-87.	3.0	67
81	Stability analysis of networked linear control systems with direct-feedthrough terms. Automatica, 2018, 96, 186-200.	3.0	6
82	Hybrid PID control for transient performance improvement of motion systems with friction. , 2018, , .		2
83	Time-Regularized and Periodic Event-Triggered Control for Linear Systems. Lecture Notes in Control and Information Sciences, 2018, , 121-149.	0.6	5
84	A Consistent Threshold-Based Policy for Event-Triggered Control. , 2018, 2, 447-452.		23
85	Periodic Event-Triggered Control. , 2018, , 104-120.		10
86	Output-Based and Decentralized Dynamic Event-Triggered Control With Guaranteed $mathcal{L}_{p}$- Gain Performance and Zeno-Freeness. IEEE Transactions on Automatic Control, 2017, 62, 34-49.	3.6	360
87	Optimal control for integrated emission management in diesel engines. Control Engineering Practice, 2017, 61, 206-216.	3.2	30
88	Resource-aware MPC for constrained linear systems: Two rollout approaches. Journal of Process Control, 2017, 51, 68-83.	1.7	15
89	Output-Based Event-Triggered Control with Performance Guarantees. IEEE Transactions on Automatic Control, 2017, 62, 3646-3652.	3.6	66
90	Stability and Performance Analysis of Spatially Invariant Systems with Networked Communication. IEEE Transactions on Automatic Control, 2017, 62, 4994-5009.	3.6	24

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91	Frequency-domain tools for stability analysis of reset control systems. Automatica, 2017, 82, 101-108.	3.0	50
92	Robust Event-Triggered MPC With Guaranteed Asymptotic Bound and Average Sampling Rate. IEEE Transactions on Automatic Control, 2017, 62, 5694-5709.	3.6	74
93	Computing Minimal and Maximal Allowable Transmission Intervals for Networked Control Systems Using the Hybrid Systems Approach. , 2017, 1, 56-61.		24
94	Event-triggered control systems under packet losses. Automatica, 2017, 80, 143-155.	3.0	112
95	Computation of periodic solutions in maximal monotone dynamical systems with guaranteed consistency. Nonlinear Analysis: Hybrid Systems, 2017, 24, 100-114.	2.1	6
96	Switched control of a SCARA robot with shared actuation resources * *This research is supported by the Dutch Technology Foundation STW, carries out as a part of the CHAMeleon project â€œHybrid solutions for cost-aware high-performance motion controlâ€•(no. 13896). IFAC-PapersOnLine, 2017, 50, 1931-1936.	0.5	5
97	Event-Triggered Control for String-Stable Vehicle Platooning. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3486-3500.	4.7	160
98	Self-triggered and event-driven control for linear systems with stochastic delays. , 2017, , .		5
99	Hybrid integrator design for enhanced tracking in motion control. , 2017, , .		24
100	On Lyapunov-Metzler Inequalities and S-Procedure Characterizations for the Stabilization of Switched Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 4593-4597.	3.6	28
101	Tradeoffs between quality-of-control and quality-of-service in large-scale nonlinear networked control systems. Nonlinear Analysis: Hybrid Systems, 2017, 23, 142-165.	2.1	20
102	Event-Triggered Control Systems Under Denial-of-Service Attacks. IEEE Transactions on Control of Network Systems, 2017, 4, 93-105.	2.4	300
103	Event-triggered Consensus Seeking under Non-uniform Time-Varying Delays. IFAC-PapersOnLine, 2017, 50, 10096-10101.	0.5	11
104	Stabilization of discrete-time switched linear systems: Lyapunov-Metzler inequalities versus S-procedure characterizations * *This work was carried out during Atreyee Kunduâ€™s Postdoctoral research at TU/Eindhoven. Atreyee Kundu and Maurice Heemels were supported by the Innovational Research Incentives Scheme under the VICI grant â€œWireless control systems: A new frontier in automationâ€•(No. 11382) awarded by NWO (The Netherlands Organisation for Scientific Research) and STW (Dutch Technology Foundation). IFAC-PapersOnLine, 2017, 50, 3412-3417.	0.5	1
105	Set-point Control of Motion Systems with Uncertain Set-valued Stribeck Friction * *This research is supported by the Dutch Technology Foundation (STW, project 13896). IFAC-PapersOnLine, 2017, 50, 2965-2970.	0.5	4
106	Design of periodic event-triggered control for polynomial systems: A delay system approach * *E. Aranda-EscolÃ¡stico, M. Guinaldo and S. Dormido supported by Spanish Ministry of Economy and Competitiveness under projects DPI2012-31303 and DPI2014-55932-C2-2-R and by the Universidad Nacional de EducaciÃ³n a Distancia under the project 2014-007-UNED-PROY.M. Abdelrahim and W.P.M.H. Heemels are supported by the Dutch Science Foundation (STW) and the Dutch Organization for Scientic Research (NWO) under the VICI gr. IFAC-PapersOnLine, 2017, 50, 7887-7892.	0.5	8
107	Suboptimal event-triggered control over unreliable communication links with experimental validation. , 2017, , .		1
108	Optimal control of a wave energy converter. , 2017, , .		6

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109	Coverage control for outbreak dynamics. , 2017, , .		0
110	MAX-consensus in open multi-agent systems with gossip interactions. , 2017, , .		18
111	L<inf>2</inf>-gain analysis of periodic event-triggered systems with varying delays using lifting techniques. , 2017, , .		0
112	Filtered Split-Path Nonlinear Integrator (F-SPANI) for improved transient performance. , 2017, , .		1
113	Sample-drop firmness analysis of TDMA-scheduled control applications. , 2016, , .		2
114	On the potential of lifted domain feedforward controllers with a periodic sampling sequence. , 2016, , .		6
115	Input-to-state stabilizing event-triggered control for linear systems with output quantization. , 2016, , .		14
116	Î³-invasive event-triggered and self-triggered control for perturbed linear systems. , 2016, , .		2
117	Dynamic event-triggered control with time regularization for linear systems. , 2016, , .		12
118	Stability analysis of networked control systems with direct-feedthrough terms: Part II - the linear case. , 2016, , .		5
119	Switching data-processing methods in a control loop: Trade-off between delay and probability of data acquisition. IFAC-PapersOnLine, 2016, 49, 274-279.	0.5	2
120	Solution Concepts and Analysis of Spatially Invariant Hybrid Systems: Exploring Zeno and beyond**This work is supported by the Innovational Research Incentives Scheme under the VICI grant â€œWireless control systems: A new frontier in automationâ€•(No. 11382) awarded by STW (Dutch Science) Tj ET Q q 0 0 0 rg BT /Overlo	0.5	
121	Numerical Evaluation of a Robust Self-Triggered MPC Algorithm**The authors would like to thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. The authors would also like to thank the DFG for their financial support within the research grant AL 316/9-1. This work is also supported by the Innovational Research Incentives Scheme under the VICI grant â€œWireless control systems: A new f. IFAC-PapersOnLine, 2016, 49, 151-156.	0.5	3
122	Stability analysis of networked control systems with direct-feedthrough terms: Part I - the nonlinear case. , 2016, , .		4
123	Constructions of Lyapunov functions for large-scale networked control systems with packet-based communication. , 2016, , .		1
124	Dynamic thresholds in robust event-triggered control for discrete-time linear systems. , 2016, , .		4
125	Performance analysis and controller improvement for linear systems with (m, k)-firm data losses. , 2016, , .		21
126	Stabilization of nonlinear systems using state-feedback periodic event-triggered controllers. , 2016, , .		18

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127	Pacing control of sawtooth and ELM oscillations in tokamaks. Plasma Physics and Controlled Fusion, 2016, 58, 124004.	0.9	3
128	Reference-dependent variable-gain control for a nano-positioning motion system**This research is financially supported by the Dutch Technology Foundation (STW) under the project "HyperMotion: Hybrid Control for Performance Improvement of Linear Motion Systems" (no. 10953).. IFAC-PapersOnLine, 2016, 49, 70-75.	0.5	0
129	Distance function design and Lyapunov techniques for the stability of hybrid trajectories. Automatica, 2016, 73, 38-46.	3.0	16
130	Robust self-triggered MPC for constrained linear systems: A tube-based approach. Automatica, 2016, 72, 73-83.	3.0	97
131	Experimental Evaluation of Reset Control for Improved Stage Performance. IFAC-PapersOnLine, 2016, 49, 93-98.	0.5	9
132	Experimental validation of an event-triggered policy for remote sensing and control with performance guarantees. , 2016, , .		2
133	Stability analysis of spatially invariant systems with event-triggered communication. , 2016, , .		2
134	A smallâ€gain approach to networked control systems with asynchronous communication. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 809-810.	0.2	0
135	<inline-formula> <tex-math notation="LaTeX">$\mathcal{L}_{2}$</tex-math> </inline-formula>-Gain Analysis for a Class of Hybrid Systems With Applications to Reset and Event-Triggered Control: A Lifting Approach. IEEE Transactions on Automatic Control, 2016, 61, 2766-2781.	3.6	58
136	Split-path nonlinear integral control for transient performance improvement. Automatica, 2016, 66, 262-270.	3.0	15
137	The Impact of Deadline Misses on the Control Performance of High-End Motion Control Systems. IEEE Transactions on Industrial Electronics, 2016, 63, 1218-1229.	5.2	11
138	Frequency-Domain Analysis of Control Loops With Intermittent Data Losses. IEEE Transactions on Automatic Control, 2016, 61, 2295-2300.	3.6	10
139	Output-based event-triggered control systems under Denial-of-Service attacks. , 2015, , .		19
140	Resource-aware set-valued estimation for discrete-time linear systems. , 2015, , .		9
141	On observability in networked control systems with packet losses. , 2015, , .		1
142	Rollout strategies for output-based event-triggered control. , 2015, , .		2
143	Set-based MPC with an Application to Enhanced Local Hyperthermia for Cancer Treatment. IFAC-PapersOnLine, 2015, 48, 477-482.	0.5	2
144	Controllability of linear systems subject to packet losses**Raphael is supported by the Communaut_e francaise de Belgique - Actions de Recherche Concert_ees, and by the Belgian Programme on Interuniversity Attraction Poles and by the â€˜Actions de Recherches Concert_eesâ€™ Programme. He is a F.R.S.-FNRS Research Associate. Maurice is supported by the Innovational Research Incentives Scheme under the VICI grant â€œWireless control systems: A new frontier in automationâ€•(no. 11382) awarded by		

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145	Sampling Rate**The authors would like to thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. The authors would also like to thank the DFG for their financial support	0.5	13
146	would like to thank the German Research Foundation (DFG) for financial support of the project within the Cluster of Excellence in Simulation Technology (EXC 310/2) at the University of Stuttgart. The authors would also like to thank the DFG for their financial support within the research grant AL 316/9-1. This work is also supported by the Innovational Research Incentives Scheme under the VICI grant Wireless. IFAC-PapersOnLine, 2015, 48, 132-137.	0.5	8
147	Modeling, observer design and robust control of the particle density profile in tokamak plasmas. , 2015, , .		3
148	Robust self-triggered model predictive control for constrained discrete-time LTI systems based on homothetic tubes. , 2015, , .		20
149	An event-triggered policy for remote sensing and control with performance guarantees. , 2015, , .		4
150	Definitions of incremental stability for hybrid systems. , 2015, , .		7
151	Feedforward for multi-rate motion control: Enhanced performance and cost-effectiveness. , 2015, , .		5
152	Switching data-processing methods for feedback control: Breaking the speed versus accuracy trade-off. , 2015, , .		4
153	Constructing distance functions and piecewise quadratic Lyapunov functions for stability of hybrid trajectories. , 2015, , .		1
154	A lifting approach to â„'<inf>2</inf>-gain analysis of periodic event-triggered and switching sampled-data control systems. , 2015, , .		2
155	Stability Analysis of Spatially Invariant Interconnected Systems with Networked Communication. IFAC-PapersOnLine, 2015, 48, 221-226.	0.5	7
156	Scheduled controller design for systems with two switching sensor configurations: A frequency-domain approach**This work is supported by the Dutch Technology Foundation (STW) under project â€œHyperMotion: Hybrid Control for Performance Improvement of Linear Motion Systemsâ€• (no. 10953).. IFAC-PapersOnLine, 2015, 48, 99-104.	0.5	1
157	Robust Global Stabilization of the DC-DC Boost Converter via Hybrid Control. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1052-1061.	3.5	82
158	Resource-aware MPC for constrained nonlinear systems: A self-triggered control approach. Systems and Control Letters, 2015, 79, 59-67.	1.3	75
159	Dynamic event-triggered control under packet losses: The case with acknowledgements. , 2015, , .		15
160	Frequency-domain analysis of real-time and networked control systems with stochastic delays and data drops. , 2015, , .		3
161	Design of a variable gain integrator with reset. , 2015, , .		9
162	Resource-Aware Control and Dynamic Scheduling in CPS. Lecture Notes in Computer Science, 2015, , 1-7.	1.0	0

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163	Root locus analysis for randomly sampled systems. , 2014, , .		1
164	Rollout Event-Triggered Control: Beyond Periodic Control Performance. IEEE Transactions on Automatic Control, 2014, 59, 3296-3311.	3.6	125
165	Time-stepping methods for constructing periodic solutions in maximally monotone set-valued dynamical systems. , 2014, , .		1
166	Improved ℒ<inf>2</inf>-gain analysis for a class of hybrid systems with applications to reset and event-triggered control. , 2014, , .		7
167	Performance analysis of a class of linear quadratic regulators for switched linear systems. , 2014, , .		4
168	Dynamic event-triggered control: Tradeoffs between transmission intervals and performance. , 2014, , .		37
169	An embedding approach for the design of stateâ€feedback tracking controllers for references with jumps. International Journal of Robust and Nonlinear Control, 2014, 24, 1585-1608.	2.1	30
170	Transient performance improvement of linear systems using a split-path nonlinear integrator. , 2014, , .		7
171	Event-separation properties of event-triggered control systems. IEEE Transactions on Automatic Control, 2014, 59, 2644-2656.	3.6	389
172	Tracking Control for Nonlinear Networked Control Systems. IEEE Transactions on Automatic Control, 2014, 59, 1539-1554.	3.6	94
173	Self-triggered linear quadratic control. Automatica, 2014, 50, 1279-1287.	3.0	138
174	Robust self-triggered MPC for constrained linear systems. , 2014, , .		25
175	Stabilizing Dynamic Controllers for Hybrid Systems: A Hybrid Control Lyapunov Function Approach. IEEE Transactions on Automatic Control, 2014, 59, 2629-2643.	3.6	22
176	Minimum attention control for linear systems. Discrete Event Dynamic Systems: Theory and Applications, 2014, 24, 199-218.	0.6	33
177	Output-Based Controller Synthesis for Networked Control Systems with Periodic Protocols and Time-Varying Transmission Intervals and Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6478-6483.	0.4	4
178	Dynamic Programming for Integrated Emission Management in Diesel Engines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11860-11865.	0.4	6
179	Model-based periodic event-triggered control for linear systems. Automatica, 2013, 49, 698-711.	3.0	510
180	Compensation-based control for lossy communication networks. International Journal of Control, 2013, 86, 1880-1897.	1.2	20

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181	Stability analysis of networked and quantized linear control systems. Nonlinear Analysis: Hybrid Systems, 2013, 10, 111-125.	2.1	36
182	Stability analysis of nonlinear networked control systems with asynchronous communication: A small-gain approach. , 2013, , .		31
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