W P M H Heemels

List of Publications by Year
in descending order

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376	16,220	30070 54	22832 112
papers	citations	h-index	g-index

377	377	377	6100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An introduction to event-triggered and self-triggered control. , 2012, , .		1,273
2	Periodic Event-Triggered Control for Linear Systems. IEEE Transactions on Automatic Control, 2013, 58, 847-861.	5.7	1,046
3	Output-Based Event-Triggered Control With Guaranteed ${cal L}_{infty}$-Gain and Improved and Decentralized Event-Triggering. IEEE Transactions on Automatic Control, 2012, 57, 1362-1376.	5.7	737
4	Networked Control Systems With Communication Constraints: Tradeoffs Between Transmission Intervals, Delays and Performance. IEEE Transactions on Automatic Control, 2010, 55, 1781-1796.	5.7	735
5	Analysis of event-driven controllers for linear systems. International Journal of Control, 2008, 81, 571-590.	1.9	680
6	Equivalence of hybrid dynamical models. Automatica, 2001, 37, 1085-1091.	5.0	624
7	Model-based periodic event-triggered control for linear systems. Automatica, 2013, 49, 698-711.	5.0	510
8	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. IEEE Transactions on Automatic Control, 2011, 56, 2101-2115.	5.7	458
9	Event-separation properties of event-triggered control systems. IEEE Transactions on Automatic Control, 2014, 59, 2644-2656.	5.7	389
10	Energy Management Strategies for Vehicular Electric Power Systems. IEEE Transactions on Vehicular Technology, 2005, 54, 771-782.	6.3	360
11	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.	5.7	360
12	Stability of Networked Control Systems With Uncertain Time-Varying Delays. IEEE Transactions on Automatic Control, 2009, 54, 1575-1580.	5.7	340
13	Event-Triggered Control Systems Under Denial-of-Service Attacks. IEEE Transactions on Control of Network Systems, 2017, 4, 93-105.	3.7	300
14	Controller synthesis for networked control systems. Automatica, 2010, 46, 1584-1594.	5.0	286
15	A Bayesian approach to identification of hybrid systems. IEEE Transactions on Automatic Control, 2005, 50, 1520-1533.	5.7	232
16	Linear Complementarity Systems. SIAM Journal on Applied Mathematics, 2000, 60, 1234-1269.	1.8	221
17	Stability analysis of stochastic networked control systems. Automatica, 2012, 48, 917-925.	5.0	196
18	Stabilizing Model Predictive Control of Hybrid Systems. IEEE Transactions on Automatic Control, 2006, 51, 1813-1818.	5.7	190

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19	Observer-Based Control of Discrete-Time LPV Systems With Uncertain Parameters $ $. IEEE Transactions on Automatic Control, 2010, 55, 2130-2135.	5.7	182
20	Event-Triggered Control for String-Stable Vehicle Platooning. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 3486-3500.	8.0	160
21	Self-triggered linear quadratic control. Automatica, 2014, 50, 1279-1287.	5.0	138
22	On input-to-state stability of minâ€“max nonlinear model predictive control. Systems and Control Letters, 2008, 57, 39-48.	2.3	134
23	Rollout Event-Triggered Control: Beyond Periodic Control Performance. IEEE Transactions on Automatic Control, 2014, 59, 3296-3311.	5.7	125
24	Reconfigurable control of piecewise affine systems with actuator and sensor faults: Stability and tracking. Automatica, 2011, 47, 678-691.	5.0	116
25	Event-triggered control systems under packet losses. Automatica, 2017, 80, 143-155.	5.0	112
26	Periodic Event-Triggered Control for Nonlinear Networked Control Systems. IEEE Transactions on Automatic Control, 2020, 65, 620-635.	5.7	104
27	Asynchronous measurement and control: a case study on motor synchronization. Control Engineering Practice, 1999, 7, 1467-1482.	5.5	103
28	Design and implementation of parameterized adaptive cruise control: An explicit model predictive control approach. Control Engineering Practice, 2010, 18, 882-892.	5.5	100
29	Performance analysis of reset control systems. International Journal of Robust and Nonlinear Control, 2010, 20, 1213-1233.	3.7	98
30	On Linear Passive Complementarity Systems. European Journal of Control, 2002, 8, 220-237.	2.6	97
31	Robust self-triggered MPC for constrained linear systems: A tube-based approach. Automatica, 2016, 72, 73-83.	5.0	97
32	On polytopic inclusions as a modeling framework for systems with time-varying delays. Automatica, 2010, 46, 615-619.	5.0	94
33	Tracking Control for Nonlinear Networked Control Systems. IEEE Transactions on Automatic Control, 2014, 59, 1539-1554.	5.7	94
34	Control of mechanical motion systems with non-collocation of actuation and friction: A Popov criterion approach for input-to-state stability and set-valued nonlinearities. Automatica, 2009, 45, 405-415.	5.0	93
35	Robust Stability of Networked Control Systems with Time-varying Network-induced Delays. , 2006, , .		87
36	Comparison of Four Procedures for the Identification of Hybrid Systems. Lecture Notes in Computer Science, 2005, , 354-369.	1.3	84

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37	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.	5.4	82
38	On hybrid systems and closed-loop MPC systems. IEEE Transactions on Automatic Control, 2002, 47, 863-869.	5.7	78
39	Predictive control of hybrid systems: Input-to-state stability results for sub-optimal solutions. Automatica, 2009, 45, 180-185.	5.0	76
40	A discrete-time framework for stability analysis of nonlinear networked control systems. Automatica, 2012, 48, 1144-1153.	5.0	76
41	Output-based event-triggered control with Guaranteed ℒ<inf>∞</inf>-gain and improved event-triggering. , 2010, , .		75
42	Tracking Control for Hybrid Systems With State-Triggered Jumps. IEEE Transactions on Automatic Control, 2013, 58, 876-890.	5.7	75
43	Resource-aware MPC for constrained nonlinear systems: A self-triggered control approach. Systems and Control Letters, 2015, 79, 59-67.	2.3	75
44	Robust Event-Triggered MPC With Guaranteed Asymptotic Bound and Average Sampling Rate. IEEE Transactions on Automatic Control, 2017, 62, 5694-5709.	5.7	74
45	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.	7.9	72
46	On the dynamic analysis of piecewise-linear networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 315-327.	0.1	70
47	Observer Design for Lur'e Systems With Multivalued Mappings: A Passivity Approach. IEEE Transactions on Automatic Control, 2009, 54, 1996-2001.	5.7	70
48	Riccati-Based Design of Event-Triggered Controllers for Linear Systems With Delays. IEEE Transactions on Automatic Control, 2018, 63, 174-188.	5.7	70
49	String stability of interconnected vehicles under communication constraints. , 2012, , .		68
50	Input-to-state stability and interconnections of discontinuous dynamical systems. Automatica, 2008, 44, 3079-3086.	5.0	67
51	Periodic event-triggered control of nonlinear systems using overapproximation techniques. Automatica, 2018, 94, 81-87.	5.0	67
52	Output-Based Event-Triggered Control with Performance Guarantees. IEEE Transactions on Automatic Control, 2017, 62, 3646-3652.	5.7	66
53	Practical Stabilization of Switched Affine Systems With Dwell-Time Guarantees. IEEE Transactions on Automatic Control, 2019, 64, 4811-4817.	5.7	65
54	Decentralized observer-based control via networked communication. Automatica, 2013, 49, 2074-2086.	5.0	64

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55	Periodic event-triggered control based on state feedback. , 2011, , .		63
56	Switched networks and complementarity. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 1036-1046.	0.1	62
57	Periodic event-triggered control for nonlinear systems. , 2013, , .		62
58	Stability analysis of networked control systems: A sum of squares approach. Automatica, 2012, 48, 1514-1524.	5.0	60
59	<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.	5.7	58
60	The Complementarity Class of Hybrid Dynamical Systems. European Journal of Control, 2003, 9, 322-360.	2.6	55
61	Algebraic Necessary and Sufficient Conditions for the Controllability of Conewise Linear Systems. IEEE Transactions on Automatic Control, 2008, 53, 762-774.	5.7	55
62	Lyapunov Functions, Stability and Input-to-State Stability Subtleties for Discrete-Time Discontinuous Systems. IEEE Transactions on Automatic Control, 2009, 54, 2421-2425.	5.7	55
63	Inputâ€toâ€state stabilizing subâ€optimal NMPC with an application to DCâ€“DC converters. International Journal of Robust and Nonlinear Control, 2008, 18, 890-904.	3.7	54
64	Consistency of a time-stepping method for a class of piecewise-linear networks. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 349-357.	0.1	53
65	Data-based hybrid modelling of the component placement process in pick-and-place machines. Control Engineering Practice, 2004, 12, 1241-1252.	5.5	52
66	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.	5.0	52
67	Observer design for a class of piecewise linear systems. International Journal of Robust and Nonlinear Control, 2007, 17, 1387-1404.	3.7	50
68	Frequency-domain tools for stability analysis of reset control systems. Automatica, 2017, 82, 101-108.	5.0	50
69	Self-triggered MPC for constrained linear systems and quadratic costs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 342-348.	0.4	49
70	Linear quadratic regulator problem with positive controls. International Journal of Control, 1998, 70, 551-578.	1.9	48
71	Stability analysis and controller synthesis for hybrid dynamical systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 4937-4960.	3.4	46
72	Observer Designs for Experimental Non-Smooth and Discontinuous Systems. IEEE Transactions on Control Systems Technology, 2008, 16, 1323-1332.	5.2	43

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73	Stability and Stabilization of Networked Control Systems. Lecture Notes in Control and Information Sciences, 2010, , 203-253.	1.0	43
74	The rational complementarity problem. Linear Algebra and Its Applications, 1999, 294, 93-135.	0.9	42
75	Observer design for a class of piece-wise affine systems. , 0, , .		42
76	On solution concepts and well-posedness of linear relay systems. Automatica, 2003, 39, 2139-2147.	5.0	42
77	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.	5.7	41
78	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. Lecture Notes in Computer Science, 2009, , 150-164.	1.3	41
79	Projected dynamical systems in a complementarity formalism. Operations Research Letters, 2000, 27, 83-91.	0.7	39
80	Event-driven control as an opportunity in the multidisciplinary development of embedded controllers. , 0, , .		38
81	Stability of networked control systems with large delays. , 2007, , .		38
82	Observerâ€based control of linear complementarity systems. International Journal of Robust and Nonlinear Control, 2011, 21, 1193-1218.	3.7	38
83	Dynamic event-triggered control: Tradeoffs between transmission intervals and performance. , 2014, , .		37
84	Disturbance decoupling of switched linear systems. Systems and Control Letters, 2012, 61, 69-78.	2.3	36
85	Stability analysis of networked and quantized linear control systems. Nonlinear Analysis: Hybrid Systems, 2013, 10, 111-125.	3.5	36
86	Dynamic programming formulation of periodic event-triggered control: Performance Guarantees and co-design. , 2012, , .		35
87	Networked and quantized control systems with communication delays. , 2009, , .		34
88	Minimum attention control for linear systems. Discrete Event Dynamic Systems: Theory and Applications, 2014, 24, 199-218.	1.5	33
89	Event-triggered and self-triggered control for linear systems based on reachable sets. Automatica, 2019, 101, 15-26.	5.0	33
90	Positive feedback stabilization of centrifugal compressor surge. Automatica, 2002, 38, 311-318.	5.0	32

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91	Systematic Model-Based Design and Implementation of Supervisors for Advanced Driver Assistance Systems. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 533-544.	8.0	32
92	Stability analysis of nonlinear networked control systems with asynchronous communication: A small-gain approach. , 2013, , .		31
93	A full characterization of stabilizability of bimodal piecewise linear systems with scalar inputs. Automatica, 2008, 44, 1261-1267.	5.0	30
94	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.	3.7	30
95	Optimal control for integrated emission management in diesel engines. Control Engineering Practice, 2017, 61, 206-216.	5.5	30
96	Reset integral control for improved settling of PID-based motion systems with friction. Automatica, 2019, 107, 483-492.	5.0	29
97	Delay-varying repetitive control with application to a walking piezo actuator. Automatica, 2011, 47, 1737-1743.	5.0	28
98	On Lyapunov-Metzler Inequalities and S-Procedure Characterizations for the Stabilization of Switched Linear Systems. IEEE Transactions on Automatic Control, 2017, 62, 4593-4597.	5.7	28
99	Observability and Controllability Analysis of Linear Systems Subject to Data Losses. IEEE Transactions on Automatic Control, 2018, 63, 3361-3376.	5.7	28
100	A Bayesian approach to identification of hybrid systems. , 2004, , .		26
101	Stabilization of Networked Control Systems with large delays and packet dropouts. , 2008, , .		25
102	Switching Control in Vibration Isolation Systems. IEEE Transactions on Control Systems Technology, 2013, 21, 626-635.	5.2	25
103	Further Input-to-State Stability Subtleties for Discrete-Time Systems. IEEE Transactions on Automatic Control, 2013, 58, 1609-1613.	5.7	25
104	Robust self-triggered MPC for constrained linear systems. , 2014, , .		25
105	Stability and Performance Analysis of Spatially Invariant Systems with Networked Communication. IEEE Transactions on Automatic Control, 2017, 62, 4994-5009.	5.7	24
106	Computing Minimal and Maximal Allowable Transmission Intervals for Networked Control Systems Using the Hybrid Systems Approach. , 2017, 1, 56-61.		24
107	Hybrid integrator design for enhanced tracking in motion control. , 2017, , .		24
108	Hybrid Integrator-Gain Systems: A Remedy for Overshoot Limitations in Linear Control?. , 2020, 4, 1042-1047.		24

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109	On integration of event-based estimation and robust MPC in a feedback loop. , 2010, , .		24
110	On the equivalence of linear complementarity problems. Operations Research Letters, 2002, 30, 211-222.	0.7	23
111	Stabilization conditions for model predictive control of constrained PWA systems. , 2004, , .		23
112	On robustness of constrained discrete-time systems to state measurement errors. Automatica, 2008, 44, 1161-1165.	5.0	23
113	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.	1.9	23
114	A Consistent Threshold-Based Policy for Event-Triggered Control. , 2018, 2, 447-452.		23
115	Squaring the circle: An algorithm for generating polyhedral invariant sets from ellipsoidal ones. Automatica, 2007, 43, 2096-2103.	5.0	22
116	Stabilizing Dynamic Controllers for Hybrid Systems: A Hybrid Control Lyapunov Function Approach. IEEE Transactions on Automatic Control, 2014, 59, 2629-2643.	5.7	22
117	Robust control of piecewise linear systems: A case study in sheet flow control. Control Engineering Practice, 2008, 16, 991-1003.	5.5	21
118	Global input-to-state stability and stabilization of discrete-time piecewise affine systems. Nonlinear Analysis: Hybrid Systems, 2008, 2, 721-734.	3.5	21
119	Stability analysis of stochastic Networked Control Systems. , 2010, , .		21
120	FPGA Implementations of Piecewise Affine Functions Based on Multi-Resolution Hyperrectangular Partitions. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 2920-2933.	5.4	21
121	Performance analysis and controller improvement for linear systems with (m, k)-firm data losses. , 2016, , .		21
122	Stability and controllability of planar bimodal linear complementarity systems. , 0, , .		20
123	Compensation-based control for lossy communication networks. International Journal of Control, 2013, 86, 1880-1897.	1.9	20
124	Robust self-triggered model predictive control for constrained discrete-time LTI systems based on homothetic tubes. , 2015, , .		20
125	Tradeoffs between quality-of-control and quality-of-service in large-scale nonlinear networked control systems. Nonlinear Analysis: Hybrid Systems, 2017, 23, 142-165.	3.5	20
126	On the Controllability of Bimodal Piecewise Linear Systems. Lecture Notes in Computer Science, 2004, , 250-264.	1.3	20

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127	Infinity Norms as Lyapunov Functions for Model Predictive Control of Constrained PWA Systems. Lecture Notes in Computer Science, 2005, , 417-432.	1.3	19
128	Approximation of explicit model predictive control using regular piecewise affine functions: an input-to-state stability approach. IET Control Theory and Applications, 2012, 6, 1015-1028.	2.1	19
129	Output-based event-triggered control systems under Denial-of-Service attacks. , 2015, , .		19
130	Stabilization of nonlinear systems using state-feedback periodic event-triggered controllers. , 2016, , .		18
131	MAX-consensus in open multi-agent systems with gossip interactions. , 2017, , .		18
132	Model predictive control for MR-HIFU-mediated, uniform hyperthermia. International Journal of Hyperthermia, 2019, 36, 1039-1049.	2.5	18
133	On the equivalence of classes of hybrid dynamical models. , 0, , .		17
134	To stick or to slip: A reset PID control perspective on positioning systems with friction. Annual Reviews in Control, 2020, 49, 37-63.	7.9	17
135	Controllability of linear systems with input and state constraints. , 2007, , .		16
136	Distance function design and Lyapunov techniques for the stability of hybrid trajectories. Automatica, 2016, 73, 38-46.	5.0	16
137	Model-based real-time plasma electron density profile estimation and control on ASDEX Upgrade and TCV. Fusion Engineering and Design, 2019, 147, 111211.	1.9	16
138	Inter-event Times Analysis for Planar Linear Event-triggered Controlled Systems. , 2019, , .		16
139	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.	5.2	16
140	Discrete-Time Non-smooth Nonlinear MPC: Stability and Robustness. , 2007, , 93-103.		16
141	Case Studies in Event-Driven Control. Lecture Notes in Computer Science, 2007, , 762-765.	1.3	15
142	Optimized input-to-state stabilization of discrete-time nonlinear systems with bounded inputs. , 2008, , .		15
143	On the minimum attention control problem for linear systems: A linear programming approach. , 2011, , .		15
144	Dynamic event-triggered control under packet losses: The case with acknowledgements. , 2015, , .		15

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145	Split-path nonlinear integral control for transient performance improvement. Automatica, 2016, 66, 262-270.	5.0	15
146	Resource-aware MPC for constrained linear systems: Two rollout approaches. Journal of Process Control, 2017, 51, 68-83.	3.3	15
147	An Average Allowable Transmission Interval Condition for the Stability of Networked Control Systems. IEEE Transactions on Automatic Control, 2021, 66, 2526-2541.	5.7	15
148	A hybrid MPC approach to the design of a Smart adaptive cruise controller. , 2006, , .		14
149	Reconfigurable control of PWA systems with actuator and sensor faults: Stability. , 2008, , .		14
150	Input-to-state stabilizing event-triggered control for linear systems with output quantization. , 2016, , .		14
151	$mathcal {L}_2$-Gain Analysis of Periodic Event-Triggered Control and Self-Triggered Control Using Lifting. IEEE Transactions on Automatic Control, 2021, 66, 3749-3756.	5.7	14
152	On dropout modelling for stability analysis of networked control systems. , 2010, , .		13
153	A unified numerical scheme for linear-quadratic optimal control problems with joint control and state constraints. Optimization Methods and Software, 2012, 27, 761-799.	2.4	13
154	Robust Event-Triggered MPC for Constrained Linear Discrete-Time Systems with Guaranteed Average 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 within the research grant AL 316/9-1. This work is also supported by the Innovational Research Incentives Scheme under t. IFAC-PapersOnLine, 2015, 48, 117-122.	0.9	13
155	Projection-based integrators for improved motion control: Formalization, well-posedness and stability of hybrid integrator-gain systems. Automatica, 2021, 133, 109830.	5.0	13
156	A Multi Target Track Before Detect Application. , 2003, , .		12
157	Dynamic event-triggered control with time regularization for linear systems. , 2016, , .		12
158	Extended Projected Dynamical Systems with Applications to Hybrid Integrator-Gain Systems. , 2019, , .		12
159	Scheduling measurements and controls over networks — Part I: Rollout strategies for protocol design. , 2012, , .		11
160	The Impact of Deadline Misses on the Control Performance of High-End Motion Control Systems. IEEE Transactions on Industrial Electronics, 2016, 63, 1218-1229.	7.9	11
161	Event-triggered Consensus Seeking under Non-uniform Time-Varying Delays. IFAC-PapersOnLine, 2017, 50, 10096-10101.	0.9	11
162	Data science at farm level: Explaining and predicting within-farm variability in potato growth and yield. European Journal of Agronomy, 2021, 123, 126220.	4.1	11

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163	Input-to-State Stability of Discontinuous Dynamical Systems with an Observer-Based Control Application. , 2007, , 259-272.		11
164	Decoupling-based reconfigurable control of linear systems after actuator faults. , 2009, , .		11
165	Null controllability of discrete-time linear systems with input and state constraints. , 2008, , .		10
166	Comparison of stability characterisations for networked control systems. , 2009, , .		10
167	Design of observer-based controllers for LPV systems with unknown parameters. , 2009, , .		10
168	A Model Predictive Control Approach to Design a Parameterized Adaptive Cruise Control. Lecture Notes in Control and Information Sciences, 2010, , 273-284.	1.0	10
169	Synthesis of low-complexity stabilizing piecewise affine controllers: A control-Lyapunov function approach. , 2011, , .		10
170	MOBY-DIC: A MATLAB Toolbox for Circuit-Oriented Design of Explicit MPC. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 218-225.	0.4	10
171	Frequency-Domain Analysis of Control Loops With Intermittent Data Losses. IEEE Transactions on Automatic Control, 2016, 61, 2295-2300.	5.7	10
172	Incremental Stability of Hybrid Dynamical Systems. IEEE Transactions on Automatic Control, 2018, 63, 4094-4109.	5.7	10
173	Hybrid Integrator-Gain System for Active Vibration Isolation with Improved Transient Response. IFAC-PapersOnLine, 2019, 52, 454-459.	0.9	10
174	Periodic Event-Triggered Control. , 2018, , 104-120.		10
175	Well-posedness of linear complementarity systems. , 0, , .		9
176	Complementarity problems in linear complementarity systems. , 1998, , .		9
177	A time-stepping method for relay systems. , 0, , .		9
178	Comparison of three procedures for the identification of hybrid systems. , 0, , .		9
179	Low-complexity approximations of PWA functions: A case study on Adaptive Cruise Control. , 2011, , .		9
180	Tracking control of mechanical systems with a unilateral position constraint inducing dissipative impacts. , 2012, , .		9

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181	Resource-aware set-valued estimation for discrete-time linear systems. , 2015, , .		9
182	Design of a variable gain integrator with reset. , 2015, , .		9
183	Experimental Evaluation of Reset Control for Improved Stage Performance. IFAC-PapersOnLine, 2016, 49, 93-98.	0.9	9
184	Periodic event-triggered output feedback control of nonlinear systems. , 2018, , .		9
185	Offset-Free Model Predictive Temperature Control for Ultrasound-Based Hyperthermia Cancer Treatments. IEEE Transactions on Control Systems Technology, 2021, 29, 2351-2365.	5.2	9
186	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.	2.5	9
187	Opportunities for control engineering in arable precision agriculture. Annual Reviews in Control, 2021, 51, 47-55.	7.9	9
188	Networked control systems with communication constraints: Tradeoffs between transmission intervals and delays. , 2009, , .		9
189	Output-feedback control of Lur’e-type systems with set-valued nonlinearities: A Popov-criterion approach. , 2008, , .		8
190	Further input-to-state stability subtleties for discrete-time systems. , 2010, , .		8
191	Tracking control for hybrid systems via embedding of known reference trajectories. , 2011, , .		8
192	Scheduling measurements and controls over networks — Part II: Rollout strategies for simultaneous protocol and controller design. , 2012, , .		8
193	Networked Control Systems Toolbox: Robust Stability Analysis Made Easy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 55-60.	0.4	8
194	Communication Scheduling in Robust Self-Triggered MPC for Linear Discrete-Time Systemsâˆ—â€”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	0.9	8
195	Aranda-Escolástico, 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.	0.9	8
196	Oblique Projected Dynamical Systems and Incremental Stability Under State Constraints. , 2020, 4, 1060-1065.		8
197	Reset PID Design for Motion Systems With Stribeck Friction. IEEE Transactions on Control Systems Technology, 2022, 30, 294-310.	5.2	8
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199	Further Results on â€œRobust MPC Using Linear Matrix Inequalitiesâ€• Lecture Notes in Control and Information Sciences, 2009, , 89-98.	1.0	8
200	Applications of complementarity systems. , 1999, , .		7
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