

Laurentiu Hetel

List of Publications by Year in descending order

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57
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57
all docs

57
docs citations

57
times ranked

1189
citing authors

#	ARTICLE	IF	CITATIONS
1	Sampled-data distributed control for homo-directional linear hyperbolic system with spatially sampled state measurements. Automatica, 2022, 139, 110183.	5.0	2
2	Frequency-domain stability conditions for asynchronously sampled decentralized LTI systems. Automatica, 2021, 129, 109603.	5.0	4
3	Dissipativity-based framework for stability analysis of aperiodically sampled nonlinear systems with time-varying delay. Automatica, 2021, 129, 109632.	5.0	5
4	A Hybrid System Approach to Exponential Stability with Sampled-data Control for a Class of Linear Hyperbolic Systems. IFAC-PapersOnLine, 2021, 54, 133-138.	0.9	0
5	Sampled-data Control for a Class of Linear Hyperbolic Systems via the Lyapunov-Razumikhin Technique. , 2021, , .		1
6	Design of robust decentralised controllers for MIMO plants with delays through network structure exploitation. International Journal of Control, 2020, 93, 2275-2289.	1.9	9
7	Design of L_2 -stable fixed-order decentralised controllers in a network of sampled-data systems with time-delays. European Journal of Control, 2020, 56, 73-85.	2.6	2
8	Stability Analysis for A Class of Linear Hyperbolic System of Balance Laws with Sampled-data Control. IFAC-PapersOnLine, 2020, 53, 3608-3613.	0.9	2
9	Exponential Synchronization of Nonlinear Oscillators Under Sampled-Data Coupling. , 2020, , .		1
10	Observer analysis and synthesis for perturbed Lipschitz systems under noisy time-varying measurements. Automatica, 2019, 106, 406-410.	5.0	10
11	Robust output-feedback control for uncertain linear sampled-data systems: A 2D impulsive system approach. Nonlinear Analysis: Hybrid Systems, 2019, 32, 177-201.	3.5	7
12	Stabilization of switched affine systems with disturbed state-dependent switching laws. International Journal of Robust and Nonlinear Control, 2018, 28, 582-595.	3.7	25
13	Design of robust structurally constrained controllers for MIMO plants with time-delays. , 2018, , .		5
14	L_2 -Stability Criterion for Systems with Decentralized Asynchronous Controllers. , 2018, , .		3
15	A switching controller for a class of MIMO bilinear time-delay systems. , 2018, , .		2
16	Stabilization by a relay control using non-quadratic Lyapunov functions. Automatica, 2018, 97, 353-366.	5.0	4
17	Nonlinear impulsive systems: 2D stability analysis approach. Automatica, 2017, 80, 32-40.	5.0	16
18	Recent developments on the stability of systems with aperiodic sampling: An overview. Automatica, 2017, 76, 309-335.	5.0	308

#	ARTICLE	IF	CITATIONS
19	Observer synthesis under time-varying sampling for Lipschitz nonlinear systems. Automatica, 2017, 85, 433-440.	5.0	32
20	Stability of Sampled-data Systems with Uncertain Time-varying Delays and Its Application to Consensus Control of Multi-agent Systems. IFAC-PapersOnLine, 2017, 50, 1257-1262.	0.9	4
21	Minimality of aperiodic sampled data systems. , 2017, , .		2
22	Observer-based relay feedback controller design for LTI systems. , 2016, , .		2
23	Stability analysis of some classes of input-affine nonlinear systems with aperiodic sampled-data control. Automatica, 2016, 70, 266-274.	5.0	41
24	Analysis of Bilinear Systems with Sampled-Data State Feedback. Advances in Delays and Dynamics, 2016, , 79-96.	0.4	1
25	Binary Control Design for a Class of Bilinear Systems: Application to a Multilevel Power Converter. IEEE Transactions on Control Systems Technology, 2016, 24, 719-726.	5.2	16
26	Vector lyapunov function based stability for a class of impulsive systems. , 2015, , .		7
27	Parameter-Dependent Relay Control: Application to PMSM. IEEE Transactions on Control Systems Technology, 2015, 23, 1628-1637.	5.2	15
28	Local Stabilization of Switched Affine Systems. IEEE Transactions on Automatic Control, 2015, 60, 1158-1163.	5.7	32
29	A robust stability framework for LTI systems with time-varying sampling. Automatica, 2015, 54, 56-64.	5.0	20
30	Networked Control Systems in the Presence of Scheduling Protocols and Communication Delays. SIAM Journal on Control and Optimization, 2015, 53, 1768-1788.	2.1	44
31	Variable Structure Control With Generalized Relays: A Simple Convex Optimization Approach. IEEE Transactions on Automatic Control, 2015, 60, 497-502.	5.7	26
32	Tutorial on arbitrary and state-dependent sampling. , 2014, , .		5
33	On relay control for discrete time systems using linear matrix inequalities. , 2014, , .		3
34	Stability analysis of bilinear systems under aperiodic sampled-data control. Automatica, 2014, 50, 1288-1295.	5.0	73
35	Networked Control Systems: A time-delay approach. , 2014, , .		11
36	Sampled-Data Stabilization under Round-Robin Scheduling. Advances in Delays and Dynamics, 2014, , 171-184.	0.4	0

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37	State-Dependent Sampling for Online Control. Advances in Delays and Dynamics, 2014, , 3-16.	0.4	0
38	Robust Sampled " Data Control of Switched Affine Systems. IEEE Transactions on Automatic Control, 2013, 58, 2922-2928.	5.7	120
39	Stabilization of linear impulsive systems through a nearly-periodic reset. Nonlinear Analysis: Hybrid Systems, 2013, 7, 4-15.	3.5	67
40	Sampled-data control of LTI systems with relays: a convex optimization approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 711-716.	0.4	4
41	On the stability of input-affine nonlinear systems with sampled-data control. , 2013, , .		8
42	State-dependent sampling for perturbed time-delay systems. , 2012, , .		7
43	Stability of bilinear sampled-data systems with an emulation of static state feedback. , 2012, , .		5
44	Network-Based Control under Round-Robin Scheduling and Quantization. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 91-96.	0.4	1
45	State-dependent sampling for Linear Time Invariant systems: A discrete time analysis. , 2012, , .		7
46	A state dependent sampling for linear state feedback. Automatica, 2012, 48, 1860-1867.	5.0	75
47	A predictive control scheme for systems with variable time-delay. International Journal of Control, 2012, 85, 915-932.	1.9	29
48	Network-based control via a novel analysis of hybrid systems with time-varying delays. , 2012, , .		27
49	Stability and -gain analysis of Networked Control Systems under Round-Robin scheduling: A time-delay approach. Systems and Control Letters, 2012, 61, 666-675.	2.3	143
50	A Hybrid Method for the Analysis of Non-uniformly Sampled Systems. Lecture Notes in Control and Information Sciences, 2012, , 253-264.	1.0	0
51	Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. IEEE Transactions on Automatic Control, 2011, 56, 2101-2115.	5.7	458
52	Reset control systems: stabilization by nearly-periodic reset. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2395-2400.	0.4	4
53	Sampled-Data Stabilization via Round-Robin Scheduling: A Direct Lyapunov-Krasovskii Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1459-1464.	0.4	7
54	Discrete and Intersample Analysis of Systems With Aperiodic Sampling. IEEE Transactions on Automatic Control, 2011, 56, 1696-1701.	5.7	71

#	ARTICLE	IF	CITATIONS
55	A switched Lyapunov function approach to stability analysis of non-uniformly sampled-data systems. , 2010, , .		4
56	Comparison of overapproximation methods for stability analysis of networked control systems. , 2010, , .		60
57	A scalable method for the analysis of networked linear systems with decentralized sampledâ€data control. International Journal of Robust and Nonlinear Control, 0, , .	3.7	1