

Laurentiu Hetel

List of Publications by Year in descending order

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57
papers

1,838
citations

516215

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34
g-index

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all docs

57
docs citations

57
times ranked

1189
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Stability Analysis of Networked Control Systems Using a Switched Linear Systems Approach. IEEE Transactions on Automatic Control, 2011, 56, 2101-2115. | 3.6 | 458 |
| 2 | Recent developments on the stability of systems with aperiodic sampling: An overview. Automatica, 2017, 76, 309-335. | 3.0 | 308 |
| 3 | Stability and H_∞ -gain analysis of Networked Control Systems under Round-Robin scheduling: A time-delay approach. Systems and Control Letters, 2012, 61, 666-675. | 1.3 | 143 |
| 4 | Robust Sampled-Data Control of Switched Affine Systems. IEEE Transactions on Automatic Control, 2013, 58, 2922-2928. | 3.6 | 120 |
| 5 | A state dependent sampling for linear state feedback. Automatica, 2012, 48, 1860-1867. | 3.0 | 75 |
| 6 | Stability analysis of bilinear systems under aperiodic sampled-data control. Automatica, 2014, 50, 1288-1295. | 3.0 | 73 |
| 7 | Discrete and Intersample Analysis of Systems With Aperiodic Sampling. IEEE Transactions on Automatic Control, 2011, 56, 1696-1701. | 3.6 | 71 |
| 8 | Stabilization of linear impulsive systems through a nearly-periodic reset. Nonlinear Analysis: Hybrid Systems, 2013, 7, 4-15. | 2.1 | 67 |
| 9 | Comparison of overapproximation methods for stability analysis of networked control systems. , 2010, , . | | 60 |
| 10 | Networked Control Systems in the Presence of Scheduling Protocols and Communication Delays. SIAM Journal on Control and Optimization, 2015, 53, 1768-1788. | 1.1 | 44 |
| 11 | Stability analysis of some classes of input-affine nonlinear systems with aperiodic sampled-data control. Automatica, 2016, 70, 266-274. | 3.0 | 41 |
| 12 | Local Stabilization of Switched Affine Systems. IEEE Transactions on Automatic Control, 2015, 60, 1158-1163. | 3.6 | 32 |
| 13 | Observer synthesis under time-varying sampling for Lipschitz nonlinear systems. Automatica, 2017, 85, 433-440. | 3.0 | 32 |
| 14 | A predictive control scheme for systems with variable time-delay. International Journal of Control, 2012, 85, 915-932. | 1.2 | 29 |
| 15 | Network-based control via a novel analysis of hybrid systems with time-varying delays. , 2012, , . | | 27 |
| 16 | Variable Structure Control With Generalized Relays: A Simple Convex Optimization Approach. IEEE Transactions on Automatic Control, 2015, 60, 497-502. | 3.6 | 26 |
| 17 | Stabilization of switched affine systems with disturbed state-dependent switching laws. International Journal of Robust and Nonlinear Control, 2018, 28, 582-595. | 2.1 | 25 |
| 18 | A robust stability framework for LTI systems with time-varying sampling. Automatica, 2015, 54, 56-64. | 3.0 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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. | 3.2 | 16 |
| 20 | Nonlinear impulsive systems: 2D stability analysis approach. Automatica, 2017, 80, 32-40. | 3.0 | 16 |
| 21 | Parameter-Dependent Relay Control: Application to PMSM. IEEE Transactions on Control Systems Technology, 2015, 23, 1628-1637. | 3.2 | 15 |
| 22 | Networked Control Systems: A time-delay approach. , 2014, , . | | 11 |
| 23 | Observer analysis and synthesis for perturbed Lipschitz systems under noisy time-varying measurements. Automatica, 2019, 106, 406-410. | 3.0 | 10 |
| 24 | Design of robust decentralised controllers for MIMO plants with delays through network structure exploitation. International Journal of Control, 2020, 93, 2275-2289. | 1.2 | 9 |
| 25 | On the stability of input-affine nonlinear systems with sampled-data control. , 2013, , . | | 8 |
| 26 | 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 |
| 27 | State-dependent sampling for perturbed time-delay systems. , 2012, , . | | 7 |
| 28 | State-dependent sampling for Linear Time Invariant systems: A discrete time analysis. , 2012, , . | | 7 |
| 29 | Vector lyapunov function based stability for a class of impulsive systems. , 2015, , . | | 7 |
| 30 | Robust output-feedback control for uncertain linear sampled-data systems: A 2D impulsive system approach. Nonlinear Analysis: Hybrid Systems, 2019, 32, 177-201. | 2.1 | 7 |
| 31 | Stability of bilinear sampled-data systems with an emulation of static state feedback. , 2012, , . | | 5 |
| 32 | Tutorial on arbitrary and state-dependent sampling. , 2014, , . | | 5 |
| 33 | Design of robust structurally constrained controllers for MIMO plants with time-delays. , 2018, , . | | 5 |
| 34 | Dissipativity-based framework for stability analysis of aperiodically sampled nonlinear systems with time-varying delay. Automatica, 2021, 129, 109632. | 3.0 | 5 |
| 35 | A switched Lyapunov function approach to stability analysis of non-uniformly sampled-data systems. , 2010, , . | | 4 |
| 36 | Reset control systems: stabilization by nearly-periodic reset. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2395-2400. | 0.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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. | 0.5 | 4 |
| 39 | Stabilization by a relay control using non-quadratic Lyapunov functions. Automatica, 2018, 97, 353-366. | 3.0 | 4 |
| 40 | Frequency-domain stability conditions for asynchronously sampled decentralized LTI systems. Automatica, 2021, 129, 109603. | 3.0 | 4 |
| 41 | On relay control for discrete time systems using linear matrix inequalities. , 2014, , . | | 3 |
| 42 | \mathcal{L}_2 -Stability Criterion for Systems with Decentralized Asynchronous Controllers. , 2018, , . | | 3 |
| 43 | Observer-based relay feedback controller design for LTI systems. , 2016, , . | | 2 |
| 44 | Minimality of aperiodic sampled data systems. , 2017, , . | | 2 |
| 45 | A switching controller for a class of MIMO bilinear time-delay systems. , 2018, , . | | 2 |
| 46 | Design of \mathcal{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. | 1.6 | 2 |
| 47 | Stability Analysis for A Class of Linear Hyperbolic System of Balance Laws with Sampled-data Control. IFAC-PapersOnLine, 2020, 53, 3608-3613. | 0.5 | 2 |
| 48 | Sampled-data distributed control for homo-directional linear hyperbolic system with spatially sampled state measurements. Automatica, 2022, 139, 110183. | 3.0 | 2 |
| 49 | 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 |
| 50 | Analysis of Bilinear Systems with Sampled-Data State Feedback. Advances in Delays and Dynamics, 2016, , 79-96. | 0.4 | 1 |
| 51 | A scalable method for the analysis of networked linear systems with decentralized sampled-data control. International Journal of Robust and Nonlinear Control, 0, , . | 2.1 | 1 |
| 52 | Exponential Synchronization of Nonlinear Oscillators Under Sampled-Data Coupling. , 2020, , . | | 1 |
| 53 | Sampled-data Control for a Class of Linear Hyperbolic Systems via the Lyapunov-Razumikhin Technique. , 2021, , . | | 1 |
| 54 | A Hybrid System Approach to Exponential Stability with Sampled-data Control for a Class of Linear Hyperbolic Systems. IFAC-PapersOnLine, 2021, 54, 133-138. | 0.5 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A Hybrid Method for the Analysis of Non-uniformly Sampled Systems. Lecture Notes in Control and Information Sciences, 2012, , 253-264. | 0.6 | 0 |
| 56 | Sampled-Data Stabilization under Round-Robin Scheduling. Advances in Delays and Dynamics, 2014, , 171-184. | 0.4 | 0 |
| 57 | State-Dependent Sampling for Online Control. Advances in Delays and Dynamics, 2014, , 3-16. | 0.4 | 0 |