

Manuel Mazo Jr

List of Publications by Year in descending order

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papers

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citations

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all docs

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docs citations

68
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	Decentralized Event-Triggered Control Over Wireless Sensor/Actuator Networks. IEEE Transactions on Automatic Control, 2011, 56, 2456-2461.	5.7	576
2	An ISS self-triggered implementation of linear controllers. Automatica, 2010, 46, 1310-1314.	5.0	353
3	Symbolic Models for Nonlinear Control Systems Without Stability Assumptions. IEEE Transactions on Automatic Control, 2012, 57, 1804-1809.	5.7	201
4	On event-triggered and self-triggered control over sensor/actuator networks. , 2008, , .		196
5	System Architectures, Protocols and Algorithms for Aperiodic Wireless Control Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 175-184.	11.3	122
6	PESSOA: A Tool for Embedded Controller Synthesis. Lecture Notes in Computer Science, 2010, , 566-569.	1.3	96
7	Asynchronous decentralized event-triggered control. Automatica, 2014, 50, 3197-3203.	5.0	90
8	On self-triggered control for linear systems: Guarantees and complexity. , 2009, , .		71
9	Input-to-state stability of self-triggered control systems. , 2009, , .		39
10	Decentralized event-triggered control with asynchronous updates. , 2011, , .		38
11	Self-triggered control over wireless sensor and actuator networks. , 2011, , .		33
12	Specification-guided controller synthesis for linear systems and safe linear-time temporal logic. , 2013, , .		33
13	Decentralized periodic event-triggered control with quantization and asynchronous communication. Automatica, 2018, 94, 294-299.	5.0	33
14	Symbolic approximate time-optimal control. Systems and Control Letters, 2011, 60, 256-263.	2.3	31
15	Communication Schemes for Centralized and Decentralized Event-Triggered Control Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 2035-2048.	5.2	31
16	Lyapunov Event-Triggered Stabilization With a Known Convergence Rate. IEEE Transactions on Automatic Control, 2020, 65, 507-521.	5.7	30
17	Formal Traffic Characterization of LTI Event-Triggered Control Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 274-283.	3.7	23
18	Adaptive self-triggered control of a remotely operated P3-DX robot: Simulation and experimentation. Robotics and Autonomous Systems, 2014, 62, 847-854.	5.1	20

#	ARTICLE	IF	CITATIONS
19	Simple synchronization protocols for heterogeneous networks: beyond passivity. IFAC-PapersOnLine, 2017, 50, 9426-9431.	0.9	17
20	Symbolic Abstractions of Networked Control Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 1622-1634.	3.7	15
21	Finite abstractions of networked control systems. , 2014, , .		13
22	Aperiodic Linear Networked Control Considering Variable Channel Delays: Application to Robots Coordination. Sensors, 2015, 15, 12454-12473.	3.8	11
23	Formal Controller Synthesis via Genetic Programming. IFAC-PapersOnLine, 2017, 50, 7205-7210.	0.9	11
24	Traffic Models of Periodic Event-Triggered Control Systems. IEEE Transactions on Automatic Control, 2019, 64, 3453-3460.	5.7	11
25	Towards Traffic Bisimulation of Linear Periodic Event-Triggered Controllers. , 2021, 5, 25-30.		11
26	Scalable Traffic Models for Scheduling of Linear Periodic Event-Triggered Controllers. IFAC-PapersOnLine, 2020, 53, 2726-2732.	0.9	11
27	Absolute Stabilization of Lura [™] e Systems Under Event-Triggered Feedback * * This work was partially performed when the first author was working in the Department of Mechanical and Biomedical Engineering, City University of Hong Kong, China, supported by grants from the Research Grants Council of Hong Kong (No. CityU-11203714). He was also supported by the National Natural Science Foundation of China under Grants 61473297. IFAC-PapersOnLine, 2017, 50, 15301-15306.	0.9	10
28	Adaptive Self-triggered Control of a Remotely Operated Robot. Lecture Notes in Computer Science, 2012, , 61-72.	1.3	10
29	Isochronous Partitions for Region-Based Self-Triggered Control. IEEE Transactions on Automatic Control, 2021, 66, 1160-1173.	5.7	9
30	Region-Based Self-Triggered Control for Perturbed and Uncertain Nonlinear Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 757-768.	3.7	9
31	Scaling up controller synthesis for linear systems and safety specifications. , 2012, , .		8
32	Symbolic abstractions for the scheduling of event-triggered control systems. , 2015, , .		8
33	Decentralized event-triggered control with one bit communications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 52-57.	0.4	7
34	The modeling of transfer of steering between automated vehicle and human driver using hybrid control framework. , 2016, , .		6
35	Self-Triggered Output Feedback Control for Perturbed Linear Systems. IFAC-PapersOnLine, 2018, 51, 248-253.	0.9	6
36	Lyapunov Design for Event-Triggered Exponential Stabilization. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
37	Approximate time-optimal control via approximate alternating simulations. , 2010, , .		5
38	Optimal Symbolic Controllers Determinization for BDD storage. IFAC-PapersOnLine, 2018, 51, 1-6.	0.9	5
39	Computing the sampling performance of event-triggered control. , 2021, , .		5
40	Traffic Abstractions of Nonlinear Homogeneous Event-Triggered Control Systems. , 2020, , .		5
41	Self-triggered output-feedback control of LTI systems subject to disturbances and noise. Automatica, 2020, 120, 109129.	5.0	4
42	On symbolic optimal control via approximate simulation relations. , 2013, , .		3
43	Periodic asynchronous event-triggered control. , 2016, , .		3
44	Abstracted Models for Scheduling of Event-Triggered Control Data Traffic. Lecture Notes in Control and Information Sciences, 2018, , 197-217.	1.0	3
45	Convergence of ant colony multi-agent swarms. , 2020, , .		3
46	Abstracting the Sampling Behaviour of Stochastic Linear Periodic Event-Triggered Control Systems. , 2021, , .		3
47	Data-Driven Abstractions With Probabilistic Guarantees for Linear PETC Systems. , 2023, 7, 115-120.		3
48	Reduction of lateral and longitudinal oscillations of vehicle’s platooning by means of decentralized overlapping control. , 2007, , .		2
49	Steering Controller Identification and Design for Human-like Overtaking. Procedia Manufacturing, 2015, 3, 2526-2533.	1.9	2
50	Improved asynchronous event-triggered control for linear systems with performance guarantees. , 2016, , .		2
51	Asynchronous mix-triggered control. , 2017, , .		2
52	Near Optimal Control With Reachability and Safety Guarantees. IFAC-PapersOnLine, 2019, 52, 230-235.	0.9	2
53	Scheduling of Controllersâ€™ Update-Rates for Residual Bandwidth Utilization. Lecture Notes in Computer Science, 2016, , 85-101.	1.3	2
54	The Wireless Control Bus: Enabling Efficient Multi-Hop Event-Triggered Control with Concurrent Transmissions. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-29.	2.5	2

#	ARTICLE	IF	CITATIONS
55	ETCetera: beyond Event-Triggered Control. , 2022, , .		2
56	An improved self-triggered implementation for linear controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 37-42.	0.4	1
57	Design of reward structures for sequential decision-making processes using symbolic analysis. , 2013, , .		1
58	Aperiodic Consensus Control for Tracking Nonlinear Trajectories of a Platoon of Vehicles. , 2015, , .		1
59	Formal Synthesis of Analytic Controllers for Sampled-Data Systems via Genetic Programming. , 2018, , .		1
60	Periodic event-triggered control with a relaxed triggering condition. , 2019, , .		1
61	Formal synthesis of closed-form sampled-data controllers for nonlinear continuous-time systems under STL specifications. Automatica, 2022, 139, 110184.	5.0	1
62	Advances on asynchronous event-triggered control. , 2015, , .		0
63	Optimality of robust disturbance-feedback strategies. International Journal of Robust and Nonlinear Control, 2016, 26, 1475-1488.	3.7	0
64	Timing Abstraction of Perturbed LTI systems with $\hat{\alpha}$, β -based Event-Triggering Mechanism. , 2016, , .		0
65	Synthesis of Robust Piecewise Affine Output-Feedback Strategies. Journal of Guidance, Control, and Dynamics, 2016, 39, 1461-1469.	2.8	0
66	Adaptive Self-triggered Control for Remote Operation of Wifi Linked Robots. Advances in Intelligent Systems and Computing, 2014, , 541-554.	0.6	0
67	Decentralized Event-Triggered Controller Implementations. , 2018, , 121-150.		0
68	A Simpler Alternative: Minimizing Transition Systems Modulo Alternating Simulation Equivalence. , 2022, , .		0