

Manuel Mazo Jr

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5095083/publications.pdf>

Version: 2024-02-01

68
papers

2,259
citations

623734

14
h-index

395702

33
g-index

68
all docs

68
docs citations

68
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	Data-Driven Abstractions With Probabilistic Guarantees for Linear PETC Systems. , 2023, 7, 115-120.		3
2	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
3	Formal synthesis of closed-form sampled-data controllers for nonlinear continuous-time systems under STL specifications. Automatica, 2022, 139, 110184.	5.0	1
4	A Simpler Alternative: Minimizing Transition Systems Modulo Alternating Simulation Equivalence. , 2022, , .		0
5	ETCetera: beyond Event-Triggered Control. , 2022, , .		2
6	Towards Traffic Bisimulation of Linear Periodic Event-Triggered Controllers. , 2021, 5, 25-30.		11
7	Isochronous Partitions for Region-Based Self-Triggered Control. IEEE Transactions on Automatic Control, 2021, 66, 1160-1173.	5.7	9
8	Computing the sampling performance of event-triggered control. , 2021, , .		5
9	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
10	Abstracting the Sampling Behaviour of Stochastic Linear Periodic Event-Triggered Control Systems. , 2021, , .		3
11	Lyapunov Event-Triggered Stabilization With a Known Convergence Rate. IEEE Transactions on Automatic Control, 2020, 65, 507-521.	5.7	30
12	Self-triggered output-feedback control of LTI systems subject to disturbances and noise. Automatica, 2020, 120, 109129.	5.0	4
13	Convergence of ant colony multi-agent swarms. , 2020, , .		3
14	Traffic Abstractions of Nonlinear Homogeneous Event-Triggered Control Systems. , 2020, , .		5
15	Scalable Traffic Models for Scheduling of Linear Periodic Event-Triggered Controllers. IFAC-PapersOnLine, 2020, 53, 2726-2732.	0.9	11
16	Near Optimal Control With Reachability and Safety Guarantees. IFAC-PapersOnLine, 2019, 52, 230-235.	0.9	2
17	Periodic event-triggered control with a relaxed triggering condition. , 2019, , .		1
18	Traffic Models of Periodic Event-Triggered Control Systems. IEEE Transactions on Automatic Control, 2019, 64, 3453-3460.	5.7	11

#	ARTICLE	IF	CITATIONS
19	Formal Traffic Characterization of LTI Event-Triggered Control Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 274-283.	3.7	23
20	Symbolic Abstractions of Networked Control Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 1622-1634.	3.7	15
21	Formal Synthesis of Analytic Controllers for Sampled-Data Systems via Genetic Programming. , 2018, , .		1
22	Optimal Symbolic Controllers Determinization for BDD storage. IFAC-PapersOnLine, 2018, 51, 1-6.	0.9	5
23	Self-Triggered Output Feedback Control for Perturbed Linear Systems. IFAC-PapersOnLine, 2018, 51, 248-253.	0.9	6
24	Lyapunov Design for Event-Triggered Exponential Stabilization. , 2018, , .		6
25	Decentralized periodic event-triggered control with quantization and asynchronous communication. Automatica, 2018, 94, 294-299.	5.0	33
26	Communication Schemes for Centralized and Decentralized Event-Triggered Control Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 2035-2048.	5.2	31
27	Abstracted Models for Scheduling of Event-Triggered Control Data Traffic. Lecture Notes in Control and Information Sciences, 2018, , 197-217.	1.0	3
28	Decentralized Event-Triggered Controller Implementations. , 2018, , 121-150.		0
29	Formal Controller Synthesis via Genetic Programming. IFAC-PapersOnLine, 2017, 50, 7205-7210.	0.9	11
30	Simple synchronization protocols for heterogeneous networks: beyond passivity. IFAC-PapersOnLine, 2017, 50, 9426-9431.	0.9	17
31	Absolute Stabilization of Linear 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 61472287. IFAC-PapersOnLine, 2017, 50, 15281-15286.	0.9	10
32	Asynchronous mix-triggered control. , 2017, , .		2
33	Optimality of robust disturbance-feedback strategies. International Journal of Robust and Nonlinear Control, 2016, 26, 1475-1488.	3.7	0
34	Timing Abstraction of Perturbed LTI systems with \mathbb{Z}^2 -based Event-Triggering Mechanism. , 2016, , .		0
35	Improved asynchronous event-triggered control for linear systems with performance guarantees. , 2016, , .		2
36	Periodic asynchronous event-triggered control. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	The modeling of transfer of steering between automated vehicle and human driver using hybrid control framework. , 2016, , .		6
38	Synthesis of Robust Piecewise Affine Output-Feedback Strategies. Journal of Guidance, Control, and Dynamics, 2016, 39, 1461-1469.	2.8	0
39	Scheduling of Controllersâ€™ Update-Rates for Residual Bandwidth Utilization. Lecture Notes in Computer Science, 2016, , 85-101.	1.3	2
40	Symbolic abstractions for the scheduling of event-triggered control systems. , 2015, , .		8
41	Aperiodic Linear Networked Control Considering Variable Channel Delays: Application to Robots Coordination. Sensors, 2015, 15, 12454-12473.	3.8	11
42	Aperiodic Consensus Control for Tracking Nonlinear Trajectories of a Platoon of Vehicles. , 2015, , .		1
43	Advances on asynchronous event-triggered control. , 2015, , .		0
44	Steering Controller Identification and Design for Human-like Overtaking. Procedia Manufacturing, 2015, 3, 2526-2533.	1.9	2
45	Finite abstractions of networked control systems. , 2014, , .		13
46	System Architectures, Protocols and Algorithms for Aperiodic Wireless Control Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 175-184.	11.3	122
47	Asynchronous decentralized event-triggered control. Automatica, 2014, 50, 3197-3203.	5.0	90
48	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
49	Adaptive Self-triggered Control for Remote Operation of Wifi Linked Robots. Advances in Intelligent Systems and Computing, 2014, , 541-554.	0.6	0
50	Specification-guided controller synthesis for linear systems and safe linear-time temporal logic. , 2013, , .		33
51	On symbolic optimal control via approximate simulation relations. , 2013, , .		3
52	Design of reward structures for sequential decision-making processes using symbolic analysis. , 2013, , .		1
53	Scaling up controller synthesis for linear systems and safety specifications. , 2012, , .		8
54	Decentralized event-triggered control with one bit communications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 52-57.	0.4	7

#	ARTICLE	IF	CITATIONS
55	An improved self-triggered implementation for linear controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 37-42.	0.4	1
56	Symbolic Models for Nonlinear Control Systems Without Stability Assumptions. IEEE Transactions on Automatic Control, 2012, 57, 1804-1809.	5.7	201
57	Adaptive Self-triggered Control of a Remotely Operated Robot. Lecture Notes in Computer Science, 2012, , 61-72.	1.3	10
58	Self-triggered control over wireless sensor and actuator networks. , 2011, , .		33
59	Decentralized Event-Triggered Control Over Wireless Sensor/Actuator Networks. IEEE Transactions on Automatic Control, 2011, 56, 2456-2461.	5.7	576
60	Symbolic approximate time-optimal control. Systems and Control Letters, 2011, 60, 256-263.	2.3	31
61	Decentralized event-triggered control with asynchronous updates. , 2011, , .		38
62	An ISS self-triggered implementation of linear controllers. Automatica, 2010, 46, 1310-1314.	5.0	353
63	Approximate time-optimal control via approximate alternating simulations. , 2010, , .		5
64	PESSOA: A Tool for Embedded Controller Synthesis. Lecture Notes in Computer Science, 2010, , 566-569.	1.3	96
65	On self-triggered control for linear systems: Guarantees and complexity. , 2009, , .		71
66	Input-to-state stability of self-triggered control systems. , 2009, , .		39
67	On event-triggered and self-triggered control over sensor/actuator networks. , 2008, , .		196
68	Reduction of lateral and longitudinal oscillations of vehicle’s platooning by means of decentralized overlapping control. , 2007, , .		2