Manuel Mazo

List of Publications by Year
in descending order

56	2,192	430874	315739
papers	citations	18 h-index	38 g-index

56	56	56	1616
all docs	docs citations	times ranked	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	On event-triggered and self-triggered control over sensor/actuator networks. , 2008, , .		196
4	System Architectures, Protocols and Algorithms for Aperiodic Wireless Control Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 175-184.	11.3	122
5	Asynchronous decentralized event-triggered control. Automatica, 2014, 50, 3197-3203.	5.0	90
6	On self-triggered control for linear systems: Guarantees and complexity. , 2009, , .		71
7	Modular Architecture for Efficient Generation and Correlation of Complementary Set of Sequences. IEEE Transactions on Signal Processing, 2007, 55, 2323-2337.	5.3	60
8	Modeling and correction of multipath interference in time of flight cameras. Image and Vision Computing, 2014, 32, 1-13.	4.5	57
9	Guidance of a mobile robot using an array of static cameras located in the environment. Autonomous Robots, 2007, 23, 305-324.	4.8	42
10	Input-to-state stability of self-triggered control systems. , 2009, , .		39
11	Decentralized event-triggered control with asynchronous updates. , 2011, , .		38
12	Robust people detection using depth information from an overhead Time-of-Flight camera. Expert Systems With Applications, 2017, 71, 240-256.	7.6	38
13	Novel HW Architecture Based on FPGAs Oriented to Solve the Eigen Problem. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2008, 16, 1722-1725.	3.1	37
14	Self-triggered control over wireless sensor and actuator networks. , 2011, , .		33
15	Decentralized periodic event-triggered control with quantization and asynchronous communication. Automatica, 2018, 94, 294-299.	5.0	33
16	Communication Schemes for Centralized and Decentralized Event-Triggered Control Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 2035-2048.	5.2	31
17	Implementation in Fpgas of Jacobi Method to Solve the Eigenvalue and Eigenvector Problem. , 2006, , .		30
18	Efficient Multisensory Barrier for Obstacle Detection on Railways. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 702-713.	8.0	30

#	Article	IF	Citations
19	Lyapunov Event-Triggered Stabilization With a Known Convergence Rate. IEEE Transactions on Automatic Control, 2020, 65, 507-521.	5.7	30
20	High reliability outdoor sonar prototype based on efficient signal coding. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1862-1872.	3.0	26
21	Formal Traffic Characterization of LTI Event-Triggered Control Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 274-283.	3.7	23
22	Real-time implementation of an efficient correlator for complementary sets of four sequences applied to ultrasonic pulse compression systems. Microprocessors and Microsystems, 2006, 30, 43-51.	2.8	21
23	An Intelligent Space for Mobile Robot Localization Using a Multi-Camera System. Sensors, 2014, 14, 15039-15064.	3.8	20
24	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
25	Acoustic Sensor Network for Relative Positioning of Nodes. Sensors, 2009, 9, 8490-8507.	3.8	15
26	Ultrasonic Multitransducer System for Classification and 3-D Location of Reflectors Based on PCA. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3031-3041.	4.7	14
27	Different Proposals to Matrix Multiplication Based on FPGAS. , 2007, , .		11
28	Localization and Geometric Reconstruction of Mobile Robots Using a Camera Ring. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2396-2409.	4.7	11
29	Aperiodic Linear Networked Control Considering Variable Channel Delays: Application to Robots Coordination. Sensors, 2015, 15, 12454-12473.	3.8	11
30	Traffic Models of Periodic Event-Triggered Control Systems. IEEE Transactions on Automatic Control, 2019, 64, 3453-3460.	5.7	11
31	Absolute Stabilization of Lurâ€™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
32	Adaptive Self-triggered Control of a Remotely Operated Robot. Lecture Notes in Computer Science, 2012, , 61-72.	1.3	10
33	Single frame correction of motion artifacts in PMD-based time of flight cameras. Image and Vision Computing, 2014, 32, 1127-1143.	4.5	9
34	Isochronous Partitions for Region-Based Self-Triggered Control. IEEE Transactions on Automatic Control, 2021, 66, 1160-1173.	5.7	9
35	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
36	Title is missing!. Autonomous Robots, 2001, 11, 137-148.	4.8	7

#	Article	IF	Citations
37	Control of a Robotic Wheelchair Using Recurrent Networks. Autonomous Robots, 2005, 18, 5-20.	4.8	7
38	Decentralized event-triggered control with one bit communications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 52-57.	0.4	7
39	Robot and obstacles localization and tracking with an external camera ring. , 2008, , .		6
40	Detector of Electrical Discontinuity of Rails in Double-Track Railway Lines: Electronic System and Measurement Methodology. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 743-755.	8.0	6
41	Self-Triggered Output Feedback Control for Perturbed Linear Systems. IFAC-PapersOnLine, 2018, 51, 248-253.	0.9	6
42	Self-triggered output-feedback control of LTI systems subject to disturbances and noise. Automatica, 2020, 120, 109129.	5.0	4
43	Periodic asynchronous event-triggered control. , 2016, , .		3
44	Modelling and Simulation of the Kinematic and Dynamic Behavior of a Fork-Lift-Truck. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 51-55.	0.4	2
45	Asynchronous mix-triggered control. , 2017, , .		2
46	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
47	Reliability improvement of obstacle detection in an IR barrier. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	1
48	Aperiodic Consensus Control for Tracking Nonlinear Trajectories of a Platoon of Vehicles. , 2015, , .		1
49	Headgear Accessories Classification Using an Overhead Depth Sensor. Sensors, 2017, 17, 1845.	3.8	1
50	Periodic event-triggered control with a relaxed triggering condition. , 2019, , .		1
51	Data Integration by considering spatial diversity in an IR barrier. , 2006, , .		0
52	Localisation and Reconstruction of Mobile Robots in Intelligent Spaces. A single camera solution. , 2007, , .		0
53	Evaluation and selection of internal parameters of a CORDIC-unit for a specific application based on FPGAS. , 2007, , .		0
54	Advances on asynchronous event-triggered control. , 2015, , .		0

#	Article	IF	Citations
55	Adaptive Self-triggered Control for Remote Operation of Wifi Linked Robots. Advances in Intelligent Systems and Computing, 2014, , 541-554.	0.6	0
56	Announcement Signals and Automatic Braking Using Virtual Balises in Railway Transport Systems. Sensors, 2022, 22, 1943.	3.8	0