# Manuel Mazo

List of Publications by Year
in descending order



| 56 | 2,192 | 430754 | 315616 |
|---|---|---|---|
| papers | citations | 18 h-index | 38 g-index |

| 56 | 56 | 56 | 1616 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Wireless Control Bus: Enabling Efficient Multi-Hop Event-Triggered Control with Concurrent Transmissions. ACM Transactions on Cyber-Physical Systems, 2022, 6, 1-29. | 1.9 | 2 |
| 2 | Announcement Signals and Automatic Braking Using Virtual Balises in Railway Transport Systems. Sensors, 2022, 22, 1943. | 2.1 | 0 |
| 3 | Isochronous Partitions for Region-Based Self-Triggered Control. IEEE Transactions on Automatic Control, 2021, 66, 1160-1173. | 3.6 | 9 |
| 4 | Region-Based Self-Triggered Control for Perturbed and Uncertain Nonlinear Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 757-768. | 2.4 | 9 |
| 5 | Lyapunov Event-Triggered Stabilization With a Known Convergence Rate. IEEE Transactions on Automatic Control, 2020, 65, 507-521. | 3.6 | 30 |
| 6 | Self-triggered output-feedback control of LTI systems subject to disturbances and noise. Automatica, 2020, 120, 109129. | 3.0 | 4 |
| 7 | Periodic event-triggered control with a relaxed triggering condition. , 2019, , . | | 1 |
| 8 | Traffic Models of Periodic Event-Triggered Control Systems. IEEE Transactions on Automatic Control, 2019, 64, 3453-3460. | 3.6 | 11 |
| 9 | Formal Traffic Characterization of LTI Event-Triggered Control Systems. IEEE Transactions on Control of Network Systems, 2018, 5, 274-283. | 2.4 | 23 |
| 10 | Self-Triggered Output Feedback Control for Perturbed Linear Systems. IFAC-PapersOnLine, 2018, 51, 248-253. | 0.5 | 6 |
| 11 | Decentralized periodic event-triggered control with quantization and asynchronous communication. Automatica, 2018, 94, 294-299. | 3.0 | 33 |
| 12 | Communication Schemes for Centralized and Decentralized Event-Triggered Control Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 2035-2048. | 3.2 | 31 |
| 13 | Robust people detection using depth information from an overhead Time-of-Flight camera. Expert Systems With Applications, 2017, 71, 240-256. | 4.4 | 38 |
| 14 | 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. | 4.7 | 6 |
| 15 | 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. | 0.5 | 10 |
| 16 | Headgear Accessories Classification Using an Overhead Depth Sensor. Sensors, 2017, 17, 1845. | 2.1 | 1 |
| 17 | Asynchronous mix-triggered control. , 2017, , . | | 2 |
| 18 | Periodic asynchronous event-triggered control. , 2016, , . | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Aperiodic Linear Networked Control Considering Variable Channel Delays: Application to Robots Coordination. Sensors, 2015, 15, 12454-12473. | 2.1 | 11 |
| 20 | Aperiodic Consensus Control for Tracking Nonlinear Trajectories of a Platoon of Vehicles. , 2015, , . | | 1 |
| 21 | Advances on asynchronous event-triggered control. , 2015, , . | | 0 |
| 22 | An Intelligent Space for Mobile Robot Localization Using a Multi-Camera System. Sensors, 2014, 14, 15039-15064. | 2.1 | 20 |
| 23 | System Architectures, Protocols and Algorithms for Aperiodic Wireless Control Systems. IEEE Transactions on Industrial Informatics, 2014, 10, 175-184. | 7.2 | 122 |
| 24 | Asynchronous decentralized event-triggered control. Automatica, 2014, 50, 3197-3203. | 3.0 | 90 |
| 25 | Single frame correction of motion artifacts in PMD-based time of flight cameras. Image and Vision Computing, 2014, 32, 1127-1143. | 2.7 | 9 |
| 26 | Modeling and correction of multipath interference in time of flight cameras. Image and Vision Computing, 2014, 32, 1-13. | 2.7 | 57 |
| 27 | Adaptive self-triggered control of a remotely operated P3-DX robot: Simulation and experimentation. Robotics and Autonomous Systems, 2014, 62, 847-854. | 3.0 | 20 |
| 28 | Adaptive Self-triggered Control for Remote Operation of Wifi Linked Robots. Advances in Intelligent Systems and Computing, 2014, , 541-554. | 0.5 | 0 |
| 29 | Decentralized event-triggered control with one bit communications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 52-57. | 0.4 | 7 |
| 30 | Adaptive Self-triggered Control of a Remotely Operated Robot. Lecture Notes in Computer Science, 2012, , 61-72. | 1.0 | 10 |
| 31 | Self-triggered control over wireless sensor and actuator networks. , 2011, , . | | 33 |
| 32 | Decentralized Event-Triggered Control Over Wireless Sensor/Actuator Networks. IEEE Transactions on Automatic Control, 2011, 56, 2456-2461. | 3.6 | 576 |
| 33 | Decentralized event-triggered control with asynchronous updates. , 2011, , . | | 38 |
| 34 | An ISS self-triggered implementation of linear controllers. Automatica, 2010, 46, 1310-1314. | 3.0 | 353 |
| 35 | Efficient Multisensory Barrier for Obstacle Detection on Railways. IEEE Transactions on Intelligent Transportation Systems, 2010, 11, 702-713. | 4.7 | 30 |
| 36 | On self-triggered control for linear systems: Guarantees and complexity. , 2009, , . | | 71 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Input-to-state stability of self-triggered control systems. , 2009, , . | | 39 |
| 38 | Acoustic Sensor Network for Relative Positioning of Nodes. Sensors, 2009, 9, 8490-8507. | 2.1 | 15 |
| 39 | Localization and Geometric Reconstruction of Mobile Robots Using a Camera Ring. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2396-2409. | 2.4 | 11 |
| 40 | Ultrasonic Multitransducer System for Classification and 3-D Location of Reflectors Based on PCA. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3031-3041. | 2.4 | 14 |
| 41 | Robot and obstacles localization and tracking with an external camera ring. , 2008, , . | | 6 |
| 42 | 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. | 2.1 | 37 |
| 43 | On event-triggered and self-triggered control over sensor/actuator networks. , 2008, , . | | 196 |
| 44 | Modular Architecture for Efficient Generation and Correlation of Complementary Set of Sequences. IEEE Transactions on Signal Processing, 2007, 55, 2323-2337. | 3.2 | 60 |
| 45 | Localisation and Reconstruction of Mobile Robots in Intelligent Spaces. A single camera solution. , 2007, , . | | 0 |
| 46 | Different Proposals to Matrix Multiplication Based on FPGAS. , 2007, , . | | 11 |
| 47 | Evaluation and selection of internal parameters of a CORDIC-unit for a specific application based on FPGAS. , 2007, , . | | 0 |
| 48 | Guidance of a mobile robot using an array of static cameras located in the environment. Autonomous Robots, 2007, 23, 305-324. | 3.2 | 42 |
| 49 | Implementation in Fpgas of Jacobi Method to Solve the Eigenvalue and Eigenvector Problem. , 2006, , . | | 30 |
| 50 | 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. | 1.8 | 21 |
| 51 | High reliability outdoor sonar prototype based on efficient signal coding. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 1862-1872. | 1.7 | 26 |
| 52 | Data Integration by considering spatial diversity in an IR barrier. , 2006, , . | | 0 |
| 53 | Reliability improvement of obstacle detection in an IR barrier. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , . | 0.0 | 1 |
| 54 | Control of a Robotic Wheelchair Using Recurrent Networks. Autonomous Robots, 2005, 18, 5-20. | 3.2 | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Title is missing!. Autonomous Robots, 2001, 11, 137-148. | 3.2 | 7 |
| 56 | 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 |