# Lucia Lo Bello

## List of Publications by Citations

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|---|---|---|---|
| 95 papers | 1,499 citations | 24 h-index | 35 g-index |
| 123 ext. papers | 1,995 ext. citations | 5.6 avg, IF | 5.4 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 95 | A novel approach for dynamic traffic lights management based on Wireless Sensor Networks and multiple fuzzy logic controllers. *Expert Systems With Applications*, **2015**, 42, 5403-5415 | 7.8 | 95 |
| 94 | Multichannel Superframe Scheduling for IEEE 802.15.4 Industrial Wireless Sensor Networks. *IEEE Transactions on Industrial Informatics*, **2012**, 8, 337-350 | 11.9 | 87 |
| 93 | A Perspective on IEEE Time-Sensitive Networking for Industrial Communication and Automation Systems. *Proceedings of the IEEE*, **2019**, 107, 1094-1120 | 14.3 | 78 |
| 92 | Coexistence Issues of Multiple Co-Located IEEE 802.15.4/ZigBee Networks Running on Adjacent Radio Channels in Industrial Environments. *IEEE Transactions on Industrial Informatics*, **2009**, 5, 157-167 | 11.9 | 72 |
| 91 | Multi-Hop Real-Time Communications Over Bluetooth Low Energy Industrial Wireless Mesh Networks. *IEEE Access*, **2018**, 6, 26505-26519 | 3.5 | 48 |
| 90 | The case for ethernet in automotive communications. *ACM SIGBED Review*, **2011**, 8, 7-15 | 1.3 | 47 |
| 89 | Recent Advances and Trends in On-Board Embedded and Networked Automotive Systems. *IEEE Transactions on Industrial Informatics*, **2019**, 15, 1038-1051 | 11.9 | 46 |
| 88 | Novel trends in automotive networks: A perspective on Ethernet and the IEEE Audio Video Bridging **2014**, | | 43 |
| 87 | An exact stochastic analysis of priority-driven periodic real-time systems and its approximations. *IEEE Transactions on Computers*, **2005**, 54, 1460-1466 | 2.5 | 42 |
| 86 | RT-LoRa: A Medium Access Strategy to Support Real-Time Flows Over LoRa-Based Networks for Industrial IoT Applications. *IEEE Internet of Things Journal*, **2019**, 6, 10812-10823 | 10.7 | 41 |
| 85 | Improving the real-time behavior of ethernet networks using traffic smoothing. *IEEE Transactions on Industrial Informatics*, **2005**, 1, 151-161 | 11.9 | 39 |
| 84 | An Adaptive Approach to Topology Management in Large and Dense Real-Time Wireless Sensor Networks. *IEEE Transactions on Industrial Informatics*, **2009**, 5, 314-324 | 11.9 | 37 |
| 83 | Simulative assessments of the IEEE 802.15.4e DSME and TSCH in realistic process automation scenarios **2015**, | | 35 |
| 82 | Towards new hybrid networks for industrial automation **2009**, | | 34 |
| 81 | Schedulability analysis of Ethernet Audio Video Bridging networks with scheduled traffic support. *Real-Time Systems*, **2017**, 53, 526-577 | 1.3 | 31 |
| 80 | Industrial robotics in factory automation: From the early stage to the Internet of Things **2017**, | | 31 |
| 79 | Industrial LoRa: A Novel Medium Access Strategy for LoRa in Industry 4.0 Applications **2018**, | | 30 |

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| 78 | A Bluetooth Low Energy real-time protocol for Industrial Wireless mesh Networks **2016**, | | 29 |
| 77 | Cross-channel interference in IEEE 802.15.4 networks **2008**, | | 28 |
| 76 | Introducing support for scheduled traffic over IEEE audio video bridging networks **2013**, | | 27 |
| 75 | Deriving exact stochastic response times of periodic tasks in hybrid priority-driven soft real-time systems **2007**, | | 27 |
| 74 | A Priority-Aware Multichannel Adaptive Framework for the IEEE 802.15.4e-LLDN. *IEEE Transactions on Industrial Electronics*, **2016**, 63, 6360-6370 | 8.9 | 26 |
| 73 | Simulative assessments of IEEE 802.1 Ethernet AVB and Time-Triggered Ethernet for Advanced Driver Assistance Systems and in-car infotainment **2012**, | | 25 |
| 72 | Design and Implementation of an Educational Testbed for Experiencing With Industrial Communication Networks. *IEEE Transactions on Industrial Electronics*, **2007**, 54, 3122-3133 | 8.9 | 24 |
| 71 | Introducing multi-level communication in the IEEE 802.15.4e protocol: The MultiChannel-LLDN **2014**, | | 23 |
| 70 | Comparative assessments of IEEE 802.15.4/ZigBee and 6LoWPAN for low-power industrial WSNs in realistic scenarios **2012**, | | 22 |
| 69 | A topology management protocol with bounded delay for Wireless Sensor Networks **2008**, | | 22 |
| 68 | Towards IEEE 802.1 Ethernet AVB for Advanced Driver Assistance Systems: A preliminary assessment **2012**, | | 20 |
| 67 | A multichannel approach to avoid beacon collisions in IEEE 802.15.4 cluster-tree industrial networks **2009**, | | 19 |
| 66 | Pessimism in the stochastic analysis of real-time systems: concept and applications | | 18 |
| 65 | Priority-Driven Swapping-Based Scheduling of Aperiodic Real-Time Messages Over EtherCAT Networks. *IEEE Transactions on Industrial Informatics*, **2015**, 11, 741-751 | 11.9 | 14 |
| 64 | Remote Eye-Tracking for Cognitive Telerehabilitation and Interactive School Tasks in Times of COVID-19. *Information (Switzerland)*, **2020**, 11, 296 | 2.6 | 14 |
| 63 | Schedulability analysis of Time-Sensitive Networks with scheduled traffic and preemption support. *Journal of Parallel and Distributed Computing*, **2020**, 144, 153-171 | 4.4 | 14 |
| 62 | Bandwidth-efficient admission control for EDF-based wireless industrial communication **2011**, | | 14 |
| 61 | Fuzzy traffic smoothing: an approach for real-time communication over Ethernet networks | | 14 |

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| 60 | Experimental Assessments and Analysis of an SDN Framework to Integrate Mobility Management in Industrial Wireless Sensor Networks. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 5586-5595 | 11.9 | 14 |
| 59 | Dynamic load balancing techniques for flexible wireless industrial networks **2010**, | | 12 |
| 58 | Comparative Assessment of the LoRaWAN Medium Access Control Protocols for IoT: Does Listen before Talk Perform Better than ALOHA?. *Electronics (Switzerland)*, **2020**, 9, 553 | 2.6 | 11 |
| 57 | SchedWiFi: An innovative approach to support scheduled traffic in ad-hoc industrial IEEE 802.11 networks **2015**, | | 10 |
| 56 | A flexible approach for real-time wireless communications in adaptable industrial automation systems **2011**, | | 10 |
| 55 | Simulative assessments of the IEEE 802.15.4 CSMA/CA with Priority Channel Access in structural health monitoring scenarios **2017**, | | 9 |
| 54 | An innovative frequency hopping management mechanism for Bluetooth-based industrial networks **2010**, | | 9 |
| 53 | Modelling and evaluating traceability systems in food manufacturing chains | | 9 |
| 52 | Factors affecting the design of load balancing algorithms in distributed systems. *Journal of Systems and Software*, **1999**, 48, 105-117 | 3.3 | 9 |
| 51 | Priority-Based Bandwidth Management in Virtualized Software-Defined Networks. *Electronics (Switzerland)*, **2020**, 9, 1009 | 2.6 | 8 |
| 50 | Performance assessment of the PRIME MAC layer protocol **2013**, | | 8 |
| 49 | A Person Authentication System Based on RFID Tags and a Cascade of Face Recognition Algorithms. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 1676-1690 | 6.4 | 7 |
| 48 | Novel Extensions to Enhance Scalability and Reliability of the IEEE 802.15.4-DSME Protocol. *Electronics (Switzerland)*, **2020**, 9, 126 | 2.6 | 7 |
| 47 | A Novel MAC Protocol for Low Datarate Cooperative Mobile Robot Teams. *Electronics (Switzerland)*, **2020**, 9, 235 | 2.6 | 7 |
| 46 | A wireless sensor network for distributed autonomous traffc monitoring **2010**, | | 7 |
| 45 | Software- Defined Networking for Dynamic Control of Mobile Industrial Wireless Sensor Networks **2018**, | | 7 |
| 44 | Resource management and control in virtualized SDN networks **2018**, | | 6 |
| 43 | Probabilistic scheduling and Adaptive Relaying for WirelessHART networks **2015**, | | 6 |

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| 42 | A wireless traffic smoother for soft real-time communications over IEEE 802.11 industrial networks **2006**, | | 6 |
| 41 | Robots in Industry: The Past, Present, and Future of a Growing Collaboration With Humans. *IEEE Industrial Electronics Magazine*, **2021**, 15, 50-61 | 6.2 | 6 |
| 40 | An EDF-based Swapping Approach to enhance support for asynchronous real-time traffic over EtherCAT networks **2013**, | | 5 |
| 39 | Personal Protection Equipment detection system for embedded devices based on DNN and Fuzzy Logic. *Expert Systems With Applications*, **2021**, 184, 115447 | 7.8 | 5 |
| 38 | Performance Assessment of the IEEE 802.1Q in Automotive Applications **2019**, | | 4 |
| 37 | L-PTP: A novel clock synchronization protocol for Powerline networks **2012**, | | 4 |
| 36 | A middleware for reliable soft real-time communication over IEEE 802.11 WLANs **2011**, | | 4 |
| 35 | ENEL PILOT: From a Research Testbed to a Virtual Educational Laboratory. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4844-4853 | 8.9 | 4 |
| 34 | Improving routing in long-distance wireless mesh networks via a distributed embedded router. *Journal of Parallel and Distributed Computing*, **2008**, 68, 361-371 | 4.4 | 4 |
| 33 | Deadline-Aware Scheduling Policies for Bluetooth Networks in Industrial Communications **2007**, | | 4 |
| 32 | Naming and locating mobile agents in an Internet environment **1999**, | | 4 |
| 31 | A scalable approach for periodic traffic scheduling in IEEE 802.15.4-DSME networks **2019**, | | 4 |
| 30 | A Proposal Towards Software-Defined Management of Heterogeneous Virtualized Industrial Networks **2019**, | | 4 |
| 29 | Virtual biosensors for the estimation of medical precursors **2019**, | | 3 |
| 28 | Towards low-datarate communications for cooperative mobile robots **2015**, | | 3 |
| 27 | A MULTILEVEL MODELING APPROACH FOR ONLINE LEARNING AND CLASSIFICATION OF COMPLEX TRAJECTORIES FOR VIDEO SURVEILLANCE. *International Journal of Pattern Recognition and Artificial Intelligence*, **2014**, 28, 1455009 | 1.1 | 3 |
| 26 | A three-tiered architecture based on IEEE 802.15.4 and Ethernet for precision farming applications **2013**, | | 3 |
| 25 | A traffic scheduler for real-time wireless communication in adaptable industrial automation systems **2010**, | | 3 |

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| 24 | A Proposal towards flexible wireless communication in factory automation based on the IEEE 802.15.4 protocol **2009**, | | 3 |
| 23 | Fast handoff for mobile wireless process control **2007**, | | 3 |
| 22 | A slot swapping protocol for time-critical internetworking. *Journal of Systems Architecture*, **2005**, 51, 526-541 | 5.5 | 3 |
| 21 | JxActinium **2016**, | | 3 |
| 20 | Bandwidth Partitioning for Time-Sensitive Networking Flows in Automotive Communications. *IEEE Communications Letters*, **2021**, 1-1 | 3.8 | 3 |
| 19 | A Platform for Evaluating Clustering Strategies in Mobile IEEE 802.15.4-TSCH networks **2019**, | | 2 |
| 18 | A flexible mechanism for efficient transmission of aperiodic real-time messages over EtherCAT networks **2014**, | | 2 |
| 17 | CWFC: A contention window fuzzy controller for QoS support on IEEE 802.11e EDCA **2008**, | | 2 |
| 16 | A Wireless Network Architecture for Monitoring of Hospitalized Patients **2020**, | | 2 |
| 15 | A Network Architecture and Routing Protocol for the MEDIcal WARNing System. *Journal of Sensor and Actuator Networks*, **2021**, 10, 44 | 3.8 | 2 |
| 14 | Demo Abstract: A Real-Time Low Datarate Protocol for Cooperative Mobile Robot Teams **2016**, | | 2 |
| 13 | SPHERE: A Multi-SoC Architecture for Next-Generation Cyber-Physical Systems Based on Heterogeneous Platforms. *IEEE Access*, **2021**, 9, 75446-75459 | 3.5 | 2 |
| 12 | Assessments of Real-Time Communications over TSN Automotive Networks. *Electronics (Switzerland)*, **2021**, 10, 556 | 2.6 | 2 |
| 11 | A novel JXTA-based architecture for implementing heterogenous Networks of Things. *Computer Communications*, **2018**, 116, 35-62 | 5.1 | 2 |
| 10 | A novel approach for data forwarding in industrial wireless sensor networks **2010**, | | 1 |
| 9 | The case for chain-based routing in industrial wireless sensor networks **2010**, | | 1 |
| 8 | A networked embedded computing platform for physical activity assessment **2009**, | | 1 |
| 7 | Overrun handling approaches for overload-prone soft real-time systems. *Advances in Engineering Software*, **2007**, 38, 780-794 | 3.6 | 1 |

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| 6 | Efficient Full Duplex Links for Long Distance Wireless Mesh Networks **2006**, | | 1 |
| 5 | Towards stochastic response-time of hierarchically scheduled real-time tasks **2006**, | | 1 |
| 4 | More Intelligence and Less Clouds in Our Smart Homes. *Studies in Systems, Decision and Control*, **2020**, 123-136 | 0.8 | 1 |
| 3 | Rapid performance re-engineering of distributed embedded systems via latency analysis and -level diagonal search. *Journal of Parallel and Distributed Computing*, **2006**, 66, 19-31 | 4.4 | |
| 2 | Exploiting the Knowledge of Task Structure for Distributed Allocation. *Journal of Parallel and Distributed Computing*, **1999**, 59, 54-67 | 4.4 | |
| 1 | The 2020 Women in IES Workshop in Argentina [Women in IES News]. *IEEE Industrial Electronics Magazine*, **2020**, 14, 91-92 | 6.2 | |