

# Lucia Lo Bello

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Robots in Industry: The Past, Present, and Future of a Growing Collaboration With Humans. <i>IEEE Industrial Electronics Magazine</i> , <b>2021</b> , 15, 50-61	6.2	6
94	A Network Architecture and Routing Protocol for the MEDical WARNING System. <i>Journal of Sensor and Actuator Networks</i> , <b>2021</b> , 10, 44	3.8	2
93	SPHERE: A Multi-SoC Architecture for Next-Generation Cyber-Physical Systems Based on Heterogeneous Platforms. <i>IEEE Access</i> , <b>2021</b> , 9, 75446-75459	3.5	2
92	Bandwidth Partitioning for Time-Sensitive Networking Flows in Automotive Communications. <i>IEEE Communications Letters</i> , <b>2021</b> , 1-1	3.8	3
91	Assessments of Real-Time Communications over TSN Automotive Networks. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 556	2.6	2
90	Personal Protection Equipment detection system for embedded devices based on DNN and Fuzzy Logic. <i>Expert Systems With Applications</i> , <b>2021</b> , 184, 115447	7.8	5
89	Remote Eye-Tracking for Cognitive Telerehabilitation and Interactive School Tasks in Times of COVID-19. <i>Information (Switzerland)</i> , <b>2020</b> , 11, 296	2.6	14
88	Schedulability analysis of Time-Sensitive Networks with scheduled traffic and preemption support. <i>Journal of Parallel and Distributed Computing</i> , <b>2020</b> , 144, 153-171	4.4	14
87	Novel Extensions to Enhance Scalability and Reliability of the IEEE 802.15.4-DSME Protocol. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 126	2.6	7
86	A Novel MAC Protocol for Low Datarate Cooperative Mobile Robot Teams. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 235	2.6	7
85	Priority-Based Bandwidth Management in Virtualized Software-Defined Networks. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 1009	2.6	8
84	Comparative Assessment of the LoRaWAN Medium Access Control Protocols for IoT: Does Listen before Talk Perform Better than ALOHA?. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 553	2.6	11
83	More Intelligence and Less Clouds in Our Smart Homes. <i>Studies in Systems, Decision and Control</i> , <b>2020</b> , 123-136	0.8	1
82	Experimental Assessments and Analysis of an SDN Framework to Integrate Mobility Management in Industrial Wireless Sensor Networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 5586-5595	11.9	14
81	The 2020 Women in IES Workshop in Argentina [Women in IES News]. <i>IEEE Industrial Electronics Magazine</i> , <b>2020</b> , 14, 91-92	6.2	
80	A Wireless Network Architecture for Monitoring of Hospitalized Patients <b>2020</b> ,		2
79	Performance Assessment of the IEEE 802.1Q in Automotive Applications <b>2019</b> ,		4

78	Virtual biosensors for the estimation of medical precursors <b>2019</b> ,		3
77	RT-LoRa: A Medium Access Strategy to Support Real-Time Flows Over LoRa-Based Networks for Industrial IoT Applications. <i>IEEE Internet of Things Journal</i> , <b>2019</b> , 6, 10812-10823	10.7	41
76	A Perspective on IEEE Time-Sensitive Networking for Industrial Communication and Automation Systems. <i>Proceedings of the IEEE</i> , <b>2019</b> , 107, 1094-1120	14.3	78
75	A Platform for Evaluating Clustering Strategies in Mobile IEEE 802.15.4-TSCH networks <b>2019</b> ,		2
74	A scalable approach for periodic traffic scheduling in IEEE 802.15.4-DSME networks <b>2019</b> ,		4
73	A Proposal Towards Software-Defined Management of Heterogeneous Virtualized Industrial Networks <b>2019</b> ,		4
72	Recent Advances and Trends in On-Board Embedded and Networked Automotive Systems. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1038-1051	11.9	46
71	Resource management and control in virtualized SDN networks <b>2018</b> ,		6
70	A novel JXTA-based architecture for implementing heterogenous Networks of Things. <i>Computer Communications</i> , <b>2018</b> , 116, 35-62	5.1	2
69	Software- Defined Networking for Dynamic Control of Mobile Industrial Wireless Sensor Networks <b>2018</b> ,		7
68	Industrial LoRa: A Novel Medium Access Strategy for LoRa in Industry 4.0 Applications <b>2018</b> ,		30
67	Multi-Hop Real-Time Communications Over Bluetooth Low Energy Industrial Wireless Mesh Networks. <i>IEEE Access</i> , <b>2018</b> , 6, 26505-26519	3.5	48
66	A Person Authentication System Based on RFID Tags and a Cascade of Face Recognition Algorithms. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2017</b> , 27, 1676-1690	6.4	7
65	Schedulability analysis of Ethernet Audio Video Bridging networks with scheduled traffic support. <i>Real-Time Systems</i> , <b>2017</b> , 53, 526-577	1.3	31
64	Industrial robotics in factory automation: From the early stage to the Internet of Things <b>2017</b> ,		31
63	Simulative assessments of the IEEE 802.15.4 CSMA/CA with Priority Channel Access in structural health monitoring scenarios <b>2017</b> ,		9
62	A Priority-Aware Multichannel Adaptive Framework for the IEEE 802.15.4e-LLDN. <i>IEEE Transactions on Industrial Electronics</i> , <b>2016</b> , 63, 6360-6370	8.9	26
61	JxActinium <b>2016</b> ,		3

60	A Bluetooth Low Energy real-time protocol for Industrial Wireless mesh Networks <b>2016</b> ,		29
59	Demo Abstract: A Real-Time Low Datarate Protocol for Cooperative Mobile Robot Teams <b>2016</b> ,		2
58	A novel approach for dynamic traffic lights management based on Wireless Sensor Networks and multiple fuzzy logic controllers. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 5403-5415	7.8	95
57	Priority-Driven Swapping-Based Scheduling of Aperiodic Real-Time Messages Over EtherCAT Networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2015</b> , 11, 741-751	11.9	14
56	Towards low-datarate communications for cooperative mobile robots <b>2015</b> ,		3
55	Probabilistic scheduling and Adaptive Relaying for WirelessHART networks <b>2015</b> ,		6
54	SchedWiFi: An innovative approach to support scheduled traffic in ad-hoc industrial IEEE 802.11 networks <b>2015</b> ,		10
53	Simulative assessments of the IEEE 802.15.4e DSME and TSCH in realistic process automation scenarios <b>2015</b> ,		35
52	A flexible mechanism for efficient transmission of aperiodic real-time messages over EtherCAT networks <b>2014</b> ,		2
51	A MULTILEVEL MODELING APPROACH FOR ONLINE LEARNING AND CLASSIFICATION OF COMPLEX TRAJECTORIES FOR VIDEO SURVEILLANCE. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , <b>2014</b> , 28, 1455009	1.1	3
50	Novel trends in automotive networks: A perspective on Ethernet and the IEEE Audio Video Bridging <b>2014</b> ,		43
49	Introducing multi-level communication in the IEEE 802.15.4e protocol: The MultiChannel-LLDN <b>2014</b> ,		23
48	An EDF-based Swapping Approach to enhance support for asynchronous real-time traffic over EtherCAT networks <b>2013</b> ,		5
47	Introducing support for scheduled traffic over IEEE audio video bridging networks <b>2013</b> ,		27
46	Performance assessment of the PRIME MAC layer protocol <b>2013</b> ,		8
45	A three-tiered architecture based on IEEE 802.15.4 and Ethernet for precision farming applications <b>2013</b> ,		3
44	Comparative assessments of IEEE 802.15.4/ZigBee and 6LoWPAN for low-power industrial WSNs in realistic scenarios <b>2012</b> ,		22
43	L-PTP: A novel clock synchronization protocol for Powerline networks <b>2012</b> ,		4

42	Simulative assessments of IEEE 802.1 Ethernet AVB and Time-Triggered Ethernet for Advanced Driver Assistance Systems and in-car infotainment <b>2012</b> ,		25
41	Multichannel Superframe Scheduling for IEEE 802.15.4 Industrial Wireless Sensor Networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2012</b> , 8, 337-350	11.9	87
40	Towards IEEE 802.1 Ethernet AVB for Advanced Driver Assistance Systems: A preliminary assessment <b>2012</b> ,		20
39	Bandwidth-efficient admission control for EDF-based wireless industrial communication <b>2011</b> ,		14
38	A middleware for reliable soft real-time communication over IEEE 802.11 WLANs <b>2011</b> ,		4
37	A flexible approach for real-time wireless communications in adaptable industrial automation systems <b>2011</b> ,		10
36	The case for ethernet in automotive communications. <i>ACM SIGBED Review</i> , <b>2011</b> , 8, 7-15	1.3	47
35	An innovative frequency hopping management mechanism for Bluetooth-based industrial networks <b>2010</b> ,		9
34	A novel approach for data forwarding in industrial wireless sensor networks <b>2010</b> ,		1
33	Dynamic load balancing techniques for flexible wireless industrial networks <b>2010</b> ,		12
32	The case for chain-based routing in industrial wireless sensor networks <b>2010</b> ,		1
31	A traffic scheduler for real-time wireless communication in adaptable industrial automation systems <b>2010</b> ,		3
30	A wireless sensor network for distributed autonomous traffic monitoring <b>2010</b> ,		7
29	A networked embedded computing platform for physical activity assessment <b>2009</b> ,		1
28	Towards new hybrid networks for industrial automation <b>2009</b> ,		34
27	A Proposal towards flexible wireless communication in factory automation based on the IEEE 802.15.4 protocol <b>2009</b> ,		3
26	An Adaptive Approach to Topology Management in Large and Dense Real-Time Wireless Sensor Networks. <i>IEEE Transactions on Industrial Informatics</i> , <b>2009</b> , 5, 314-324	11.9	37
25	A multichannel approach to avoid beacon collisions in IEEE 802.15.4 cluster-tree industrial networks <b>2009</b> ,		19

24	Coexistence Issues of Multiple Co-Located IEEE 802.15.4/ZigBee Networks Running on Adjacent Radio Channels in Industrial Environments. <i>IEEE Transactions on Industrial Informatics</i> , <b>2009</b> , 5, 157-167	11.9	72
23	ENEL PILOT: From a Research Testbed to a Virtual Educational Laboratory. <i>IEEE Transactions on Industrial Electronics</i> , <b>2009</b> , 56, 4844-4853	8.9	4
22	Cross-channel interference in IEEE 802.15.4 networks <b>2008</b> ,		28
21	CWFC: A contention window fuzzy controller for QoS support on IEEE 802.11e EDCA <b>2008</b> ,		2
20	A topology management protocol with bounded delay for Wireless Sensor Networks <b>2008</b> ,		22
19	Improving routing in long-distance wireless mesh networks via a distributed embedded router. <i>Journal of Parallel and Distributed Computing</i> , <b>2008</b> , 68, 361-371	4.4	4
18	Design and Implementation of an Educational Testbed for Experiencing With Industrial Communication Networks. <i>IEEE Transactions on Industrial Electronics</i> , <b>2007</b> , 54, 3122-3133	8.9	24
17	Overrun handling approaches for overload-prone soft real-time systems. <i>Advances in Engineering Software</i> , <b>2007</b> , 38, 780-794	3.6	1
16	Deriving exact stochastic response times of periodic tasks in hybrid priority-driven soft real-time systems <b>2007</b> ,		27
15	Deadline-Aware Scheduling Policies for Bluetooth Networks in Industrial Communications <b>2007</b> ,		4
14	Fast handoff for mobile wireless process control <b>2007</b> ,		3
13	Rapid performance re-engineering of distributed embedded systems via latency analysis and -level diagonal search. <i>Journal of Parallel and Distributed Computing</i> , <b>2006</b> , 66, 19-31	4.4	
12	Efficient Full Duplex Links for Long Distance Wireless Mesh Networks <b>2006</b> ,		1
11	Towards stochastic response-time of hierarchically scheduled real-time tasks <b>2006</b> ,		1
10	A wireless traffic smoother for soft real-time communications over IEEE 802.11 industrial networks <b>2006</b> ,		6
9	An exact stochastic analysis of priority-driven periodic real-time systems and its approximations. <i>IEEE Transactions on Computers</i> , <b>2005</b> , 54, 1460-1466	2.5	42
8	A slot swapping protocol for time-critical internetworking. <i>Journal of Systems Architecture</i> , <b>2005</b> , 51, 526-541	5.5	3
7	Improving the real-time behavior of ethernet networks using traffic smoothing. <i>IEEE Transactions on Industrial Informatics</i> , <b>2005</b> , 1, 151-161	11.9	39

6	Naming and locating mobile agents in an Internet environment <b>1999</b> ,	4
5	Factors affecting the design of load balancing algorithms in distributed systems. <i>Journal of Systems and Software</i> , <b>1999</b> , 48, 105-117	3-3 9
4	Exploiting the Knowledge of Task Structure for Distributed Allocation. <i>Journal of Parallel and Distributed Computing</i> , <b>1999</b> , 59, 54-67	4-4
3	Pessimism in the stochastic analysis of real-time systems: concept and applications	18
2	Modelling and evaluating traceability systems in food manufacturing chains	9
1	Fuzzy traffic smoothing: an approach for real-time communication over Ethernet networks	14