Lucia Lo Bello

List of Publications by Year in Descending Order

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. *IEEE Industrial Electronics Magazine*, **2021**, 15, 50-61	6.2	6
94	A Network Architecture and Routing Protocol for the MEDIcal WARNing System. *Journal of Sensor and Actuator Networks*, **2021**, 10, 44	3.8	2
93	SPHERE: A Multi-SoC Architecture for Next-Generation Cyber-Physical Systems Based on Heterogeneous Platforms. *IEEE Access*, **2021**, 9, 75446-75459	3.5	2
92	Bandwidth Partitioning for Time-Sensitive Networking Flows in Automotive Communications. *IEEE Communications Letters*, **2021**, 1-1	3.8	3
91	Assessments of Real-Time Communications over TSN Automotive Networks. *Electronics (Switzerland)*, **2021**, 10, 556	2.6	2
90	Personal Protection Equipment detection system for embedded devices based on DNN and Fuzzy Logic. *Expert Systems With Applications*, **2021**, 184, 115447	7.8	5
89	Remote Eye-Tracking for Cognitive Telerehabilitation and Interactive School Tasks in Times of COVID-19. *Information (Switzerland)*, **2020**, 11, 296	2.6	14
88	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
87	Novel Extensions to Enhance Scalability and Reliability of the IEEE 802.15.4-DSME Protocol. *Electronics (Switzerland)*, **2020**, 9, 126	2.6	7
86	A Novel MAC Protocol for Low Datarate Cooperative Mobile Robot Teams. *Electronics (Switzerland)*, **2020**, 9, 235	2.6	7
85	Priority-Based Bandwidth Management in Virtualized Software-Defined Networks. *Electronics (Switzerland)*, **2020**, 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?. *Electronics (Switzerland)*, **2020**, 9, 553	2.6	11
83	More Intelligence and Less Clouds in Our Smart Homes. *Studies in Systems, Decision and Control*, **2020**, 123-136	0.8	1
82	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
81	The 2020 Women in IES Workshop in Argentina [Women in IES News]. *IEEE Industrial Electronics Magazine*, **2020**, 14, 91-92	6.2	
80	A Wireless Network Architecture for Monitoring of Hospitalized Patients **2020**,		2
79	Performance Assessment of the IEEE 802.1Q in Automotive Applications **2019**,		4

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

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

24	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
23	ENEL PILOT: From a Research Testbed to a Virtual Educational Laboratory. *IEEE Transactions on Industrial Electronics*, **2009**, 56, 4844-4853	8.9	4
22	Cross-channel interference in IEEE 802.15.4 networks **2008**,		28
21	CWFC: A contention window fuzzy controller for QoS support on IEEE 802.11e EDCA **2008**,		2
20	A topology management protocol with bounded delay for Wireless Sensor Networks **2008**,		22
19	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
18	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
17	Overrun handling approaches for overload-prone soft real-time systems. *Advances in Engineering Software*, **2007**, 38, 780-794	3.6	1
16	Deriving exact stochastic response times of periodic tasks in hybrid priority-driven soft real-time systems **2007**,		27
15	Deadline-Aware Scheduling Policies for Bluetooth Networks in Industrial Communications **2007**,		4
14	Fast handoff for mobile wireless process control **2007**,		3
13	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	
12	Efficient Full Duplex Links for Long Distance Wireless Mesh Networks **2006**,		1
11	Towards stochastic response-time of hierarchically scheduled real-time tasks **2006**,		1
10	A wireless traffic smoother for soft real-time communications over IEEE 802.11 industrial networks **2006**,		6
9	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
8	A slot swapping protocol for time-critical internetworking. *Journal of Systems Architecture*, **2005**, 51, 526-541	5.5	3
7	Improving the real-time behavior of ethernet networks using traffic smoothing. *IEEE Transactions on Industrial Informatics*, **2005**, 1, 151-161	11.9	39

LIST OF PUBLICATIONS

6   Naming and locating mobile agents in an Internet environment **1999**,   4

5   Factors affecting the design of load balancing algorithms in distributed systems. *Journal of Systems and Software*, **1999**, 48, 105-117   3.3   9

4   Exploiting the Knowledge of Task Structure for Distributed Allocation. *Journal of Parallel and Distributed Computing*, **1999**, 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