Luigi Patrono

List of Publications by Year
in descending order

120	3,286	331538	206029
papers	citations	21	48
		h-index	g-index

122	122	122	3143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Location Based Indoor and Outdoor Lightweight Activity Recognition System. Electronics (Switzerland), 2022, 11, 360.	1.8	5
2	An IoT-Aware Solution to Support Governments in Air Pollution Monitoring Based on the Combination of Real-Time Data and Citizen Feedback. Sensors, 2022, 22, 1000.	2.1	12
3	An IoT-Aware Smart System Exploiting the Electromagnetic Behavior of UHF-RFID Tags to Improve Worker Safety in Outdoor Environments. Electronics (Switzerland), 2022, 11, 717.	1.8	14
4	Smart IoT system empowered by customized energy-aware wireless sensors integrated in graphene-based tissues to improve workers thermal comfort. Journal of Cleaner Production, 2022, 360, 132132.	4.6	4
5	A Smart and Secure Logistics System Based on IoT and Cloud Technologies. Sensors, 2021, 21, 2231.	2.1	31
6	Behavior Modeling for a Beacon-Based Indoor Location System. Sensors, 2021, 21, 4839.	2.1	16
7	A Smart IoT-aware Backyard Poultry Farming exploiting low-cost and low-power Technologies. , 2021, , .		4
8	The use of Bluetooth Mesh Networking in IoT-aware Applications. , 2021, , .		2
9	Fog Computing: Implementation of a Simple Fog Scenario Through IoT Public Services. , 2021, , .		4
10	An IoT-aware smart system to detect thermal comfort in industrial environments. , 2021, , .		6
11	A lightweight semantic-location system for indoor and outdoor behavior modelling. , 2021, , .		1
12	Blockchain Technology Based on Algorand Applied to Low-Power and Low-Cost IoT Devices. , 2021, , .		2
13	An innovative IoT-oriented prototype platform for the management and valorisation of the organic fraction of municipal solid waste. Journal of Cleaner Production, 2020, 247, 119618.	4.6	33
14	Internet of Things (IoT): Opportunities, issues and challenges towards a smart and sustainable future. Journal of Cleaner Production, 2020, 274, 122877.	4.6	383
15	IoT-Aware Waste Management System Based on Cloud Services and Ultra-Low-Power RFID Sensor-Tags. IEEE Sensors Journal, 2020, 20, 14873-14881.	2.4	26
16	Cross‑layer innovations in Internet of Things. Transactions on Emerging Telecommunications Technologies, 2020, 31, e4188.	2.6	1
17	A Smart Pill Dispenser to support Elderly People in Medication Adherence. , 2020, , .		14
18	A Location-Aware Architecture for an IoT-Based Smart Museum. , 2020, , 413-432.		0

#	ARTICLE	IF	CITATIONS
19	A New Approach to Monitor Sarcopenic Patients based on IoT Technologies. , 2020, , .		4
20	Performance Evaluation of Indoor Positioning Systems based on Smartphone and Wearable Device. , 2020, , .		2
21	A Novel Approach based on Microservices Architectures and Computer Vision to improve access to Culture Heritage. , 2020, , .		0
22	Integrating BIM and IoT Technologies in Innovative Fire Management Systems. , 2020, , .		7
23	IoT-oriented Waste Management System based on new RFID-Sensing Devices and Cloud Technologies. , 2019, , .		7
24	An Innovative Smart System based on IoT Technologies for Fire and Danger Situations. , 2019, , .		6
25	A sensors-based monitoring system of electrical consumptions and home parameters remotely managed by mobile app for elderly habits' control. , 2019, , .		2
26	An IoT-oriented Fast Prototyping Platform for BLE-based Star Topology Networks. Journal of Communications Software and Systems, 2019, 15, .	0.6	1
27	A Smart Approach able to face Distraction Issue due to Smartphone Usage running Social Networks. , 2019, , .		0
28	Analysis of SDR-Based RFID reader: Filling Out the Gaps. , 2019, , .		2
29	A model for Reflective Middleware based on fuzzy rule for context-awareness injection in ubiquitous computing environments. , 2019, , .		1
30	A critical analysis of an IoT–aware AAL system for elderly monitoring. Future Generation Computer Systems, 2019, 97, 598-619.	4.9	61
31	An Innovative AAL System Based on IoT Technologies for Patients with Sarcopenia. Sensors, 2019, 19, 4951.	2.1	24
32	Proof of Presence: Novel Vehicle Detection System. IEEE Wireless Communications, 2019, 26, 44-49.	6.6	15
33	An IoT-Aware Approach for Elderly-Friendly Cities. IEEE Access, 2018, 6, 7941-7957.	2.6	54
34	A Smart IoT-Aware System For Crisis Scenario Management. Journal of Communications Software and Systems, 2018, 14, .	0.6	6
35	A Public-Private Partnerships Model Based on OneM2M and OSGi Enabling Smart City Solutions and Innovative Ageing Services. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 49-57.	0.2	0
36	The effectiveness of an internet of things-aware smart ventilated insulation system. Thermal Science, 2018, 22, 909-919.	0.5	3

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37	COIN: Opening the Internet of Things to People's Mobile Devices. , 2017, 55, 20-26.		16
38	Gen2 RFID as IoT Enabler: Characterization and Performance Improvement. IEEE Wireless Communications, 2017, 24, 33-39.	6.6	31
39	A Complex Event Processing based smart aid system for fire and danger management. , 2017, , .		9
40	Electromagnetic characterization of SNR variation in passive Gen2 RFID system. , 2017, , .		4
41	An innovative approach for monitoring elderly behavior by detecting home appliance's usage. , 2017, , .		9
42	An innovative approach for elderly behavioral analysis by adopting enabling IoT technologies. , 2017, , .		0
43	An ECA-based Semantic Architecture for IoT Building Automation Systems. Journal of Communications Software and Systems, 2017, 12, 24.	0.6	4
44	Performance Evaluation of a Novel Animals Tracking System based on UHF RFID Technology. Journal of Communications Software and Systems, 2017, 9, 4.	0.6	14
45	An IoT-aware Architecture to improve Safety in Sports Environments. Journal of Communications Software and Systems, 2017, 13, 44.	0.6	7
46	An IoT-aware AAL System to Capture Behavioral Changes of Elderly People. Journal of Communications Software and Systems, 2017, 13, 68.	0.6	19
47	An Energy-Efficient MAC Scheduler based on a Switched-Beam Antenna for Wireless Sensor Networks. Journal of Communications Software and Systems, 2017, 9, 117.	0.6	20
48	An IoT-Aware Architecture for Collecting and Managing Data Related to Elderly Behavior. Wireless Communications and Mobile Computing, 2017, 2017, 1-17.	0.8	31
49	IDA-Pay: a secure and efficient micro-payment system based on Peer-to-Peer NFC technology for Android mobile devices. Journal of Communications Software and Systems, 2017, 8, 117.	0.6	23
50	Integrating Passive UHF RFID Tags with WSN Nodes: Challenges and Opportunities. Journal of Communications Software and Systems, 2017, 10, 99.	0.6	9
51	Discovery and Mash-up of Physical Resources through a Web of Things Architecture. Journal of Communications Software and Systems, 2017, 10, 124.	0.6	12
52	Experimental Performance Evaluation of Passive UHF RFID Tags in Electromagnetically Critical Supply Chains. Journal of Communications Software and Systems, 2017, 7, 59.	0.6	22
53	Performance Evaluation of an Energy-Efficient MAC Scheduler by using a Test Bed Approach. Journal of Communications Software and Systems, 2017, 9, 84.	0.6	25
54	Implementation and Validation of a New Protocol Stack Architecture for Embedded Systems. Journal of Communications Software and Systems, 2017, 9, 157.	0.6	1

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55	A Cloud Architecture for Managing IoT-aware Applications According to Knowledge Processing Rules. Journal of Communications Software and Systems, 2017, 12, 45.	0.6	1
56	Abstracting IoT Complexity Through an Innovative Virtual Environment. Recent Advances in Communications and Networking Technology, 2017, 6, .	0.1	2
57	A Location-Aware Architecture for an IoT-Based Smart Museum. International Journal of Electronic Government Research, 2016, 12, 39-55.	0.5	8
58	A Novel IoT-aware Smart Parking System based onÂtheÂintegration of RFID and WSN technologies. International Journal of RF Technologies: Research and Applications, 2016, 7, 175-199.	0.5	18
59	Capturing behavioral changes of elderly people through unobtruisive sensing technologies. , 2016, , .		27
60	COIN: System Architecture for Programmable Connected Devices. , 2016, , .		0
61	An ambient assisted living system for elderly assistance applications. , 2016, , .		20
62	Impact of Tag Responsiveness on Gen2 RFID Throughput. IEEE Communications Letters, 2016, 20, 2181-2184.	2.5	4
63	S-MUnSTa: A smart ventilated insulation system based on IoT protocol stack. , 2016, , .		0
64	A web based virtual environment as a connection platform between people and IoT. , 2016, , .		9
65	An Internet of sport architecture based on emerging enabling technologies. , 2016, , .		9
66	An IoT-aware AAL system for elderly people. , 2016, , .		45
67	An Indoor Location-Aware System for an IoT-Based Smart Museum. IEEE Internet of Things Journal, 2016, 3, 244-253.	5.5	201
68	A tracking system for laboratory mice to support medical researchers in behavioral analysis. , 2015, 2015, 4946-9.		9
69	RFID-based efficient method for parking slot car detection. , 2015, , .		8
70	Web of Topics: An IoT-aware model-driven designing approach. , 2015, , .		13
71	A novel rule-based semantic architecture for IoT building automation systems. , 2015, , .		13
72	A Smart Parking System based on IoT protocols and emerging enabling technologies. , 2015, , .		61

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73	Innovative IoT-aware Services for a Smart Museum. , 2015, , .		27
74	A new vehicle-to-grid system for battery charging exploiting IoT protocols. , 2015, , .		11
75	An IoT-Aware Architecture for Smart Healthcare Systems. IEEE Internet of Things Journal, 2015, 2, 515-526.	5.5	850
76	An IoT-based user-centric ecosystem for heterogeneous Smart Home environments. , 2015, , .		24
77	A location-aware architecture for heterogeneous building automation systems. , 2015, , .		18
78	A Software Architecture Enabling the Web of Things. IEEE Internet of Things Journal, 2015, 2, 445-454.	5.5	53
79	HEC-MAC: A Hybrid Energy-Aware Cross-Layer MAC Protocol for Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2015, 11, 536794.	1.3	7
80	Integration of RFID and WSN technologies in a Smart Parking System. , 2014, , .		54
81	An android multi-protocol application for heterogeneous building automation systems. , 2014, , .		6
82	A Cross-Layer Approach to Minimize the Energy Consumption in Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 268284.	1.3	29
83	Integration of UHF RFID and WSN technologies in healthcare systems. , 2014, , .		10
84	A survey on indoor positioning systems. , 2014, , .		192
85	A novel MAC scheduler to minimize the energy consumption in a Wireless Sensor Network. Ad Hoc Networks, 2014, 16, 88-104.	3.4	39
86	Smart RFID Antenna System for Indoor Tracking and Behavior Analysis of Small Animals in Colony Cages. IEEE Sensors Journal, 2014, 14, 1198-1206.	2.4	52
87	An animal tracking system for behavior analysis using radio frequency identification. Lab Animal, 2014, 43, 321-327.	0.2	24
88	Performance evaluation of end-to-end security protocols in an Internet of Things. , 2013, , .		19
89	A novel architecture enabling the visual implementation of web of Things applications. , 2013, , .		19
90	An innovative and low-cost gapless traceability system of fresh vegetable products using RF technologies and EPCglobal standard. Computers and Electronics in Agriculture, 2013, 98, 146-157.	3.7	52

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91	The use of NFC and Android technologies to enable a KNX-based smart home. , 2013, , .		17
92	An EPC-based middleware enabling reusable and flexible mixed reality educational experiences. , 2013, , .		5
93	On the use of passive UHF RFID tags in the pharmaceutical supply chain: a novel enhanced tag versus high-performance commercial tags. International Journal of Radio Frequency Identification Technology and Applications, 2013, 4, 122.	0.5	2
94	An RFID tracking system supporting the behavior analysis of colonial laboratory animals. International Journal of RF Technologies: Research and Applications, 2013, 5, 63-80.	0.5	5
95	SWITCHED-BEAM ANTENNA FOR WIRELESS SENSOR NETWORK NODES. Progress in Electromagnetics Research C, 2013, 39, 193-207.	0.6	31
96	The impact of RF technologies and EPC standard on the fresh vegetables supply chain. International Journal of RF Technologies: Research and Applications, 2013, 5, 1-40.	0.5	7
97	Near Field UHF RFID Antenna System Enabling the Tracking of Small Laboratory Animals. International Journal of Antennas and Propagation, 2013, 2013, 1-10.	0.7	16
98	An RFID-Based Tracing and Tracking System for the Fresh Vegetables Supply Chain. International Journal of Antennas and Propagation, 2013, 2013, 1-15.	0.7	42
99	Evaluation of Thermal and Nonthermal Effects of UHF RFID Exposure on Biological Drugs. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 1051-1057.	3.6	28
100	Evaluating potential benefits of the use of RFID, EPCglobal, and ebXML in the pharmaceutical supply chain. International Journal of Healthcare Technology and Management, 2012, 13, 198.	0.1	19
101	Enhanced UHF RFID Tags for Drug Tracing. Journal of Medical Systems, 2012, 36, 3451-3462.	2.2	28
102	Implementation of the EXI Schema on Wireless Sensor Nodes Using Contiki. , 2012, , .		8
103	Evaluation of potential effects of RFID-based item-level tracing systems on the integrity of biological pharmaceutical products. International Journal of RF Technologies: Research and Applications, 2012, 3, 101-118.	0.5	19
104	RFID-based tracing systems for drugs: Technological aspects and potential exposure risks. , 2011, , .		12
105	Combining EPCglobal and HL7 to deploy innovative e-health services for patients affected by multiple intolerances. , 2011, , .		3
106	An algorithm for controlling packet size in IEEE 802.16e networks. Computer Networks, 2011, 55, 2873-2885.	3.2	3
107	An Asynchronous Scheduler to Minimize Energy Consumption in Wireless Sensor Networks. Lecture Notes in Computer Science, 2011, , 262-273.	1.0	0
108	Effects Evaluation of UHF RFID Systems on the Molecular Structure of Biological Drugs. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	3

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109	Investigating potential effects of RFID systems on the molecular structure of the human insulin. , 2010, , .		4
110	A multidisciplinary approach to investigate potential exposure risks on drugs of RFID systems. , 2010, , .		0
111	Improving item-level tracing systems through Ad Hoc UHF RFID tags. , 2010, , .		18
112	Performance Evaluation of UHF RFID Tags in the Pharmaceutical Supply Chain. , 2010, , 283-292.		14
113	On the Use of Control Packets for Intelligent Flooding in VANETs. , 2009, , .		12
114	Implementation and testing of an EPCglobal-aware Discovery Service for item-level traceability. , 2009, , .		21
115	A Packet Size Control Algorithm for IEEE 802.16e. , 2008, , .		3
116	An Adaptive ARQ Protocol for IEEE 802.16e. Proceedings - International Symposium on Computers and Communications, 2007, , .	0.0	1
117	A PERFORMANCE ENHANCING PROXY FOR MOBILE SATELLITE INTERNET. , 2003, , .		2
118	An IPSec-aware TCP PEP for integrated mobile satellite networks. , 0, , .		3
119	Potential Impact of RFID-Based Tracing Systems on the Integrity of Pharmaceutical Products. , 0, , 241-263.		0
120	Potential Impact of RFID-Based Tracing Systems on the Integrity of Pharmaceutical Products. , 0, , 1724-1745.		0