Paula Fraga-Lamas

List of Publications by Citations

68 papers	2,745 citations	27 h-index	52 g-index
71 ext. papers	3,654 ext. citations	2.5 avg, IF	6.54 L-index

#	Paper	IF	Citations
68	A Review on the Use of Blockchain for the Internet of Things. *IEEE Access*, **2018**, 6, 32979-33001	3.5	473
67	A Review on Industrial Augmented Reality Systems for the Industry 4.0 Shipyard. *IEEE Access*, **2018**, 6, 13358-13375	3.5	183
66	A Review on Blockchain Technologies for an Advanced and Cyber-Resilient Automotive Industry. *IEEE Access*, **2019**, 7, 17578-17598	3.5	138
65	A Review on the Application of Blockchain to the Next Generation of Cybersecure Industry 4.0 Smart Factories. *IEEE Access*, **2019**, 7, 45201-45218	3.5	133
64	A Review on Internet of Things for Defense and Public Safety. *Sensors*, **2016**, 16,	3.8	122
63	Towards the Internet of Smart Trains: A Review on Industrial IoT-Connected Railways. *Sensors*, **2017**, 17,	3.8	116
62	Towards The Internet-of-Smart-Clothing: A Review on IoT Wearables and Garments for Creating Intelligent Connected E-Textiles. *Electronics (Switzerland)*, **2018**, 7, 405	2.6	105
61	Towards an Autonomous Industry 4.0 Warehouse: A UAV and Blockchain-Based System for Inventory and Traceability Applications in Big Data-Driven Supply Chain Management. *Sensors*, **2019**, 19,	3.8	98
60	Towards Post-Quantum Blockchain: A Review on Blockchain Cryptography Resistant to Quantum Computing Attacks. *IEEE Access*, **2020**, 8, 21091-21116	3.5	93
59	A Practical Evaluation of Commercial Industrial Augmented Reality Systems in an Industry 4.0 Shipyard. *IEEE Access*, **2018**, 6, 8201-8218	3.5	92
58	A Review on Human-Centered IoT-Connected Smart Labels for the Industry 4.0. *IEEE Access*, **2018**, 6, 25939-25957	3.5	85
57	Design, Implementation and Practical Evaluation of an IoT Home Automation System for Fog Computing Applications Based on MQTT and ZigBee-WiFi Sensor Nodes. *Sensors*, **2018**, 18,	3.8	85
56	A Practical Evaluation of a High-Security Energy-Efficient Gateway for IoT Fog Computing Applications. *Sensors*, **2017**, 17,	3.8	74
55	A Fog Computing and Cloudlet Based Augmented Reality System for the Industry 4.0 Shipyard. *Sensors*, **2018**, 18,	3.8	65
54	A Practical Evaluation on RSA and ECC-Based Cipher Suites for IoT High-Security Energy-Efficient Fog and Mist Computing Devices. *Sensors*, **2018**, 18,	3.8	59
53	Enabling the Internet of Mobile Crowdsourcing Health Things: A Mobile Fog Computing, Blockchain and IoT Based Continuous Glucose Monitoring System for Diabetes Mellitus Research and Care. *Sensors*, **2019**, 19,	3.8	56
52	An Electricity Price-Aware Open-Source Smart Socket for the Internet of Energy. *Sensors*, **2017**, 17,	3.8	49

51	Towards Next Generation Teaching, Learning, and Context-Aware Applications for Higher Education: A Review on Blockchain, IoT, Fog and Edge Computing Enabled Smart Campuses and Universities. *Applied Sciences (Switzerland)*, **2019**, 9, 4479	2.6	48
50	A Review on IoT Deep Learning UAV Systems for Autonomous Obstacle Detection and Collision Avoidance. *Remote Sensing*, **2019**, 11, 2144	5	44
49	A Cost-Effective IoT System for Monitoring Indoor Radon Gas Concentration. *Sensors*, **2018**, 18,	3.8	44
48	VineSens: An Eco-Smart Decision-Support Viticulture System. *Sensors*, **2017**, 17,	3.8	43
47	A Fog Computing Based Cyber-Physical System for the Automation of Pipe-Related Tasks in the Industry 4.0 Shipyard. *Sensors*, **2018**, 18,	3.8	42
46	Reverse Engineering and Security Evaluation of Commercial Tags for RFID-Based IoT Applications. *Sensors*, **2016**, 17,	3.8	41
45	Smart Pipe System for a Shipyard 4.0. *Sensors*, **2016**, 16,	3.8	40
44	Design and Practical Evaluation of a Family of Lightweight Protocols for Heterogeneous Sensing through BLE Beacons in IoT Telemetry Applications. *Sensors*, **2017**, 18,	3.8	33
43	Home Automation System Based on Intelligent Transducer Enablers. *Sensors*, **2016**, 16,	3.8	30
42	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. *Sensors*, **2019**, 19,	3.8	27
41	A Practical Performance Comparison of ECC and RSA for Resource-Constrained IoT Devices **2018**,		24
40	Design, Implementation, and Empirical Validation of an IoT Smart Irrigation System for Fog Computing Applications Based on LoRa and LoRaWAN Sensor Nodes. *Sensors*, **2020**, 20,	3.8	21
39	A Plug-and-Play Human-Centered Virtual TEDS Architecture for the Web of Things. *Sensors*, **2018**, 18,	3.8	20
38	Creating the Internet of Augmented Things: An Open-Source Framework to Make IoT Devices and Augmented and Mixed Reality Systems Talk to Each Other. *Sensors*, **2020**, 20,	3.8	16
37	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. *Proceedings (mdpi)*, **2020**, 42, 62	0.3	16
36	A Methodology for Evaluating Security in Commercial RFID Systems **2017**,		16
35	Green IoT and Edge AI as Key Technological Enablers for a Sustainable Digital Transition towards a Smart Circular Economy: An Industry 5.0 Use Case. *Sensors*, **2021**, 21,	3.8	16
34	Design of a Fog Computing, Blockchain and IoT-Based Continuous Glucose Monitoring System for Crowdsourcing mHealth. *Proceedings (mdpi)*, **2019**, 4, 37	0.3	15

33	RSS stabilization techniques for a real-time passive UHF RFID pipe monitoring system for smart shipyards **2017**,		14
32	A UAV and Blockchain-Based System for Industry 4.0 Inventory and Traceability Applications. *Proceedings (mdpi)*, **2019**, 4, 26	0.3	13
31	Fake News, Disinformation, and Deepfakes: Leveraging Distributed Ledger Technologies and Blockchain to Combat Digital Deception and Counterfeit Reality. *IT Professional*, **2020**, 22, 53-59	1.9	13
30	Reverse engineering the communications protocol of an RFID public transportation card **2017**,		13
29	Clock Frequency Impact on the Performance of High-Security Cryptographic Cipher Suites for Energy-Efficient Resource-Constrained IoT Devices. *Sensors*, **2018**, 19,	3.8	12
28	Creating Collaborative Augmented Reality Experiences for Industry 4.0 Training and Assistance Applications: Performance Evaluation in the Shipyard of the Future. *Applied Sciences (Switzerland)*, **2020**, 10, 9073	2.6	12
27	Design and Empirical Validation of a Bluetooth 5 Fog Computing Based Industrial CPS Architecture for Intelligent Industry 4.0 Shipyard Workshops. *IEEE Access*, **2020**, 8, 45496-45511	3.5	11
26	Evolving military broadband wireless communication systems: WiMAX, LTE and WLAN **2016**,		10
25	Enabling automatic event detection for the pipe workshop of the shipyard 4.0 **2017**,		10
24	An IoT Monitoring System for Precision Viticulture **2017**,		8
23	Next Generation Auto-Identification and Traceability Technologies for Industry 5.0: A Methodology and Practical Use Case for the Shipbuilding Industry. *IEEE Access*, **2021**, 9, 140700-140730	3.5	8
22	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. *IEEE Access*, **2020**, 8, 117666-117688	3.5	7
21	An IoT and Blockchain based System for Monitoring and Tracking Real-time Occupancy for COVID-19 Public Safety **2020**,		6
20	Use Case Based Blended Teaching of IIoT Cybersecurity in the Industry 4.0 Era. *Applied Sciences (Switzerland)*, **2020**, 10, 5607	2.6	6
19	Teaching and Learning IoT Cybersecurity andVulnerability Assessment with Shodan through Practical Use Cases. *Sensors*, **2020**, 20,	3.8	5
18	LoRaWAN and Blockchain based Safety and Health Monitoring System for Industry 4.0 Operators. *Proceedings (mdpi)*, **2020**, 42, 77	0.3	4
17	Towards the Internet of Augmented Things: An Open-source Framework to Interconnect IoT Devices and Augmented Reality Systems. *Proceedings (mdpi)*, **2020**, 42, 50	0.3	4
16	Leveraging Blockchain for Sustainability and Open Innovation: A Cyber-Resilient Approach toward EU Green Deal and UN Sustainable Development Goals **2020**,		3

List of Publications

15	Design and implementation of an OFDMA-TDD physical layer for WiMAX applications. *Eurasip Journal on Wireless Communications and Networking*, **2013**, 2013,	3.2	3
14	Analysis, Design and Practical Validation of an Augmented Reality Teaching System Based on Microsoft HoloLens 2 and Edge Computing **2020**,		3
13	A Collaborative Augmented Reality Application for Training and Assistance during Shipbuilding Assembly Processes. *Proceedings (mdpi)*, **2020**, 54, 4	0.3	3
12	Developing the Next Generation of Augmented Reality Games for Pediatric Healthcare: An Open-Source Collaborative Framework Based on ARCore for Implementing Teaching, Training and Monitoring Applications. *Sensors*, **2021**, 21,	3.8	3
11	Blockchain Technologies in Practice. *IEEE Software*, **2020**, 37, 17-25	1.5	2
10	Design and Experimental Validation of an Augmented Reality System With Wireless Integration for Context Aware Enhanced Show Experience in Auditoriums. *IEEE Access*, **2021**, 9, 5466-5484	3.5	2
9	Analysis, Design and Empirical Validation of a Smart Campus Based on LoRaWAN. *Proceedings (mdpi)*, **2019**, 4, 7	0.3	1
8	Unleashing the Potential of LTE for Next Generation Railway Communications. *Lecture Notes in Computer Science*, **2015**, 153-164	0.9	1
7	A Real-Time Implementation of the Mobile WiMAX ARQ and Physical Layer. *Journal of Signal Processing Systems*, **2015**, 78, 283-297	1.4	1
6	E-Voting System Using Hyperledger Fabric Blockchain and Smart Contracts. *Engineering Proceedings* , **2021**, 7, 11	0.5	1
5	Collaborative Augmented Digital Twin: A Novel Open-Source Augmented Reality Solution for Training and Maintenance Processes in the Shipyard of the Future. *Engineering Proceedings*, **2021**, 7, 10	0.5	1
4	Decentralized P2P Broker for M2M and IoT Applications. *Proceedings (mdpi)*, **2020**, 54, 24	0.3	1
3	A Collaborative Industrial Augmented Reality Digital Twin: Developing the Future of Shipyard 4.0. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 104-120	0.2	1
2	Design, Implementation and Validation of a Bluetooth 5 Real-Time Monitoring System for Large Indoor Environments. *Engineering Proceedings*, **2021**, 7, 18	0.5	0
1	Power Consumption Analysis for the Development of Energy Efficient Bluetooth 5 Based Real-Time Industrial IoT Systems. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 188-206	0.2	