

# Paula Fraga-Lamas

## 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.

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 Collaborative Industrial Augmented Reality Digital Twin: Developing the Future of Shipyard 4.0. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2022</b> , 104-120	0.2	1
67	Power Consumption Analysis for the Development of Energy Efficient Bluetooth 5 Based Real-Time Industrial IoT Systems. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , <b>2022</b> , 188-206	0.2	
66	Next Generation Auto-Identification and Traceability Technologies for Industry 5.0: A Methodology and Practical Use Case for the Shipbuilding Industry. <i>IEEE Access</i> , <b>2021</b> , 9, 140700-140730	3.5	8
65	E-Voting System Using Hyperledger Fabric Blockchain and Smart Contracts. <i>Engineering Proceedings</i> , <b>2021</b> , 7, 11	0.5	1
64	Collaborative Augmented Digital Twin: A Novel Open-Source Augmented Reality Solution for Training and Maintenance Processes in the Shipyard of the Future. <i>Engineering Proceedings</i> , <b>2021</b> , 7, 10	0.5	1
63	Design, Implementation and Validation of a Bluetooth 5 Real-Time Monitoring System for Large Indoor Environments. <i>Engineering Proceedings</i> , <b>2021</b> , 7, 18	0.5	0
62	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. <i>Sensors</i> , <b>2021</b> , 21,	3.8	3
61	Design and Experimental Validation of an Augmented Reality System With Wireless Integration for Context Aware Enhanced Show Experience in Auditoriums. <i>IEEE Access</i> , <b>2021</b> , 9, 5466-5484	3.5	2
60	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. <i>Sensors</i> , <b>2021</b> , 21,	3.8	16
59	Design, Implementation, and Empirical Validation of an IoT Smart Irrigation System for Fog Computing Applications Based on LoRa and LoRaWAN Sensor Nodes. <i>Sensors</i> , <b>2020</b> , 20,	3.8	21
58	Leveraging Blockchain for Sustainability and Open Innovation: A Cyber-Resilient Approach toward EU Green Deal and UN Sustainable Development Goals <b>2020</b> ,		3
57	Blockchain Technologies in Practice. <i>IEEE Software</i> , <b>2020</b> , 37, 17-25	1.5	2
56	Design and Empirical Validation of a Bluetooth 5 Fog Computing Based Industrial CPS Architecture for Intelligent Industry 4.0 Shipyard Workshops. <i>IEEE Access</i> , <b>2020</b> , 8, 45496-45511	3.5	11
55	Fake News, Disinformation, and Deepfakes: Leveraging Distributed Ledger Technologies and Blockchain to Combat Digital Deception and Counterfeit Reality. <i>IT Professional</i> , <b>2020</b> , 22, 53-59	1.9	13
54	Teaching and Learning IoT Cybersecurity and Vulnerability Assessment with Shodan through Practical Use Cases. <i>Sensors</i> , <b>2020</b> , 20,	3.8	5
53	Creating the Internet of Augmented Things: An Open-Source Framework to Make IoT Devices and Augmented and Mixed Reality Systems Talk to Each Other. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16
52	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. <i>IEEE Access</i> , <b>2020</b> , 8, 117666-117688	3.5	7

51	Towards Post-Quantum Blockchain: A Review on Blockchain Cryptography Resistant to Quantum Computing Attacks. <i>IEEE Access</i> , <b>2020</b> , 8, 21091-21116	3.5	93
50	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. <i>Proceedings (mdpi)</i> , <b>2020</b> , 42, 62	0.3	16
49	An IoT and Blockchain based System for Monitoring and Tracking Real-time Occupancy for COVID-19 Public Safety <b>2020</b> ,		6
48	Analysis, Design and Practical Validation of an Augmented Reality Teaching System Based on Microsoft HoloLens 2 and Edge Computing <b>2020</b> ,		3
47	LoRaWAN and Blockchain based Safety and Health Monitoring System for Industry 4.0 Operators. <i>Proceedings (mdpi)</i> , <b>2020</b> , 42, 77	0.3	4
46	Towards the Internet of Augmented Things: An Open-source Framework to Interconnect IoT Devices and Augmented Reality Systems. <i>Proceedings (mdpi)</i> , <b>2020</b> , 42, 50	0.3	4
45	A Collaborative Augmented Reality Application for Training and Assistance during Shipbuilding Assembly Processes. <i>Proceedings (mdpi)</i> , <b>2020</b> , 54, 4	0.3	3
44	Decentralized P2P Broker for M2M and IoT Applications. <i>Proceedings (mdpi)</i> , <b>2020</b> , 54, 24	0.3	1
43	Use Case Based Blended Teaching of IIoT Cybersecurity in the Industry 4.0 Era. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 5607	2.6	6
42	Creating Collaborative Augmented Reality Experiences for Industry 4.0 Training and Assistance Applications: Performance Evaluation in the Shipyard of the Future. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 9073	2.6	12
41	A Review on IoT Deep Learning UAV Systems for Autonomous Obstacle Detection and Collision Avoidance. <i>Remote Sensing</i> , <b>2019</b> , 11, 2144	5	44
40	A Review on Blockchain Technologies for an Advanced and Cyber-Resilient Automotive Industry. <i>IEEE Access</i> , <b>2019</b> , 7, 17578-17598	3.5	138
39	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. <i>Sensors</i> , <b>2019</b> , 19,	3.8	98
38	Analysis, Design and Empirical Validation of a Smart Campus Based on LoRaWAN. <i>Proceedings (mdpi)</i> , <b>2019</b> , 4, 7	0.3	1
37	Design of a Fog Computing, Blockchain and IoT-Based Continuous Glucose Monitoring System for Crowdsourcing mHealth. <i>Proceedings (mdpi)</i> , <b>2019</b> , 4, 37	0.3	15
36	A Review on the Application of Blockchain to the Next Generation of Cybersecure Industry 4.0 Smart Factories. <i>IEEE Access</i> , <b>2019</b> , 7, 45201-45218	3.5	133
35	A UAV and Blockchain-Based System for Industry 4.0 Inventory and Traceability Applications. <i>Proceedings (mdpi)</i> , <b>2019</b> , 4, 26	0.3	13
34	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. <i>Sensors</i> , <b>2019</b> , 19,	3.8	27

33	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. <i>Sensors</i> , <b>2019</b> , 19,	3.8	56
32	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. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 4479	2.6	48
31	Clock Frequency Impact on the Performance of High-Security Cryptographic Cipher Suites for Energy-Efficient Resource-Constrained IoT Devices. <i>Sensors</i> , <b>2018</b> , 19,	3.8	12
30	A Review on Industrial Augmented Reality Systems for the Industry 4.0 Shipyard. <i>IEEE Access</i> , <b>2018</b> , 6, 13358-13375	3.5	183
29	A Practical Evaluation of Commercial Industrial Augmented Reality Systems in an Industry 4.0 Shipyard. <i>IEEE Access</i> , <b>2018</b> , 6, 8201-8218	3.5	92
28	A Fog Computing and Cloudlet Based Augmented Reality System for the Industry 4.0 Shipyard. <i>Sensors</i> , <b>2018</b> , 18,	3.8	65
27	A Fog Computing Based Cyber-Physical System for the Automation of Pipe-Related Tasks in the Industry 4.0 Shipyard. <i>Sensors</i> , <b>2018</b> , 18,	3.8	42
26	A Plug-and-Play Human-Centered Virtual TEDS Architecture for the Web of Things. <i>Sensors</i> , <b>2018</b> , 18,	3.8	20
25	A Review on Human-Centered IoT-Connected Smart Labels for the Industry 4.0. <i>IEEE Access</i> , <b>2018</b> , 6, 25939-25957	3.5	85
24	Design, Implementation and Practical Evaluation of an IoT Home Automation System for Fog Computing Applications Based on MQTT and ZigBee-WiFi Sensor Nodes. <i>Sensors</i> , <b>2018</b> , 18,	3.8	85
23	A Practical Evaluation on RSA and ECC-Based Cipher Suites for IoT High-Security Energy-Efficient Fog and Mist Computing Devices. <i>Sensors</i> , <b>2018</b> , 18,	3.8	59
22	A Practical Performance Comparison of ECC and RSA for Resource-Constrained IoT Devices <b>2018</b> ,		24
21	Towards The Internet-of-Smart-Clothing: A Review on IoT Wearables and Garments for Creating Intelligent Connected E-Textiles. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 405	2.6	105
20	A Cost-Effective IoT System for Monitoring Indoor Radon Gas Concentration. <i>Sensors</i> , <b>2018</b> , 18,	3.8	44
19	A Review on the Use of Blockchain for the Internet of Things. <i>IEEE Access</i> , <b>2018</b> , 6, 32979-33001	3.5	473
18	A Methodology for Evaluating Security in Commercial RFID Systems <b>2017</b> ,		16
17	RSS stabilization techniques for a real-time passive UHF RFID pipe monitoring system for smart shipyards <b>2017</b> ,		14
16	Reverse engineering the communications protocol of an RFID public transportation card <b>2017</b> ,		13

15	An IoT Monitoring System for Precision Viticulture <b>2017</b> ,		8
14	Enabling automatic event detection for the pipe workshop of the shipyard 4.0 <b>2017</b> ,		10
13	A Practical Evaluation of a High-Security Energy-Efficient Gateway for IoT Fog Computing Applications. <i>Sensors</i> , <b>2017</b> , 17,	3.8	74
12	VineSens: An Eco-Smart Decision-Support Viticulture System. <i>Sensors</i> , <b>2017</b> , 17,	3.8	43
11	An Electricity Price-Aware Open-Source Smart Socket for the Internet of Energy. <i>Sensors</i> , <b>2017</b> , 17,	3.8	49
10	Towards the Internet of Smart Trains: A Review on Industrial IoT-Connected Railways. <i>Sensors</i> , <b>2017</b> , 17,	3.8	116
9	Design and Practical Evaluation of a Family of Lightweight Protocols for Heterogeneous Sensing through BLE Beacons in IoT Telemetry Applications. <i>Sensors</i> , <b>2017</b> , 18,	3.8	33
8	Evolving military broadband wireless communication systems: WiMAX, LTE and WLAN <b>2016</b> ,		10
7	Reverse Engineering and Security Evaluation of Commercial Tags for RFID-Based IoT Applications. <i>Sensors</i> , <b>2016</b> , 17,	3.8	41
6	Home Automation System Based on Intelligent Transducer Enablers. <i>Sensors</i> , <b>2016</b> , 16,	3.8	30
5	A Review on Internet of Things for Defense and Public Safety. <i>Sensors</i> , <b>2016</b> , 16,	3.8	122
4	Smart Pipe System for a Shipyard 4.0. <i>Sensors</i> , <b>2016</b> , 16,	3.8	40
3	Unleashing the Potential of LTE for Next Generation Railway Communications. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 153-164	0.9	1
2	A Real-Time Implementation of the Mobile WiMAX ARQ and Physical Layer. <i>Journal of Signal Processing Systems</i> , <b>2015</b> , 78, 283-297	1.4	1
1	Design and implementation of an OFDMA-TDD physical layer for WiMAX applications. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2013</b> , 2013,	3.2	3