

Tiago M Fernndez-Carams

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.

79 papers	2,923 citations	29 h-index	53 g-index
85 ext. papers	3,898 ext. citations	2.7 avg, IF	6.63 L-index

#	Paper	IF	Citations
79	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> , 2022 , 104-120	0.2	1
78	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> , 2022 , 188-206	0.2	
77	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> , 2021 , 9, 140700-140730	3.5	8
76	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> , 2021 , 7, 10	0.5	1
75	Design, Implementation and Validation of a Bluetooth 5 Real-Time Monitoring System for Large Indoor Environments. <i>Engineering Proceedings</i> , 2021 , 7, 18	0.5	0
74	COVID-19 Digital Vaccination Passport Based on Blockchain with Its Own Cryptocurrency as a Reward and Mobile App for Its Use. <i>Engineering Proceedings</i> , 2021 , 7, 35	0.5	1
73	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> , 2021 , 21,	3.8	3
72	Design and Experimental Validation of an Augmented Reality System With Wireless Integration for Context Aware Enhanced Show Experience in Auditoriums. <i>IEEE Access</i> , 2021 , 9, 5466-5484	3.5	2
71	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> , 2021 , 21,	3.8	16
70	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> , 2020 , 20,	3.8	21
69	Leveraging Blockchain for Sustainability and Open Innovation: A Cyber-Resilient Approach toward EU Green Deal and UN Sustainable Development Goals 2020 ,		3
68	Blockchain Technologies in Practice. <i>IEEE Software</i> , 2020 , 37, 17-25	1.5	2
67	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> , 2020 , 8, 45496-45511	3.5	11
66	Fake News, Disinformation, and Deepfakes: Leveraging Distributed Ledger Technologies and Blockchain to Combat Digital Deception and Counterfeit Reality. <i>IT Professional</i> , 2020 , 22, 53-59	1.9	13
65	Teaching and Learning IoT Cybersecurity and Vulnerability Assessment with Shodan through Practical Use Cases. <i>Sensors</i> , 2020 , 20,	3.8	5
64	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> , 2020 , 20,	3.8	16
63	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. <i>IEEE Access</i> , 2020 , 8, 117666-117688	3.5	7

62	Towards Post-Quantum Blockchain: A Review on Blockchain Cryptography Resistant to Quantum Computing Attacks. <i>IEEE Access</i> , 2020 , 8, 21091-21116	3.5	93
61	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. <i>Proceedings (mdpi)</i> , 2020 , 42, 62	0.3	16
60	An IoT and Blockchain based System for Monitoring and Tracking Real-time Occupancy for COVID-19 Public Safety 2020 ,		6
59	Analysis, Design and Practical Validation of an Augmented Reality Teaching System Based on Microsoft HoloLens 2 and Edge Computing 2020 ,		3
58	From Pre-Quantum to Post-Quantum IoT Security: A Survey on Quantum-Resistant Cryptosystems for the Internet of Things. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 6457-6480	10.7	43
57	LoRaWAN and Blockchain based Safety and Health Monitoring System for Industry 4.0 Operators. <i>Proceedings (mdpi)</i> , 2020 , 42, 77	0.3	4
56	Towards the Internet of Augmented Things: An Open-source Framework to Interconnect IoT Devices and Augmented Reality Systems. <i>Proceedings (mdpi)</i> , 2020 , 42, 50	0.3	4
55	A Collaborative Augmented Reality Application for Training and Assistance during Shipbuilding Assembly Processes. <i>Proceedings (mdpi)</i> , 2020 , 54, 4	0.3	3
54	Decentralized P2P Broker for M2M and IoT Applications. <i>Proceedings (mdpi)</i> , 2020 , 54, 24	0.3	1
53	Use Case Based Blended Teaching of IIoT Cybersecurity in the Industry 4.0 Era. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5607	2.6	6
52	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> , 2020 , 10, 9073	2.6	12
51	A Review on IoT Deep Learning UAV Systems for Autonomous Obstacle Detection and Collision Avoidance. <i>Remote Sensing</i> , 2019 , 11, 2144	5	44
50	A Review on Blockchain Technologies for an Advanced and Cyber-Resilient Automotive Industry. <i>IEEE Access</i> , 2019 , 7, 17578-17598	3.5	138
49	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> , 2019 , 19,	3.8	98
48	Analysis, Design and Empirical Validation of a Smart Campus Based on LoRaWAN. <i>Proceedings (mdpi)</i> , 2019 , 4, 7	0.3	1
47	Design of a Fog Computing, Blockchain and IoT-Based Continuous Glucose Monitoring System for Crowdsourcing mHealth. <i>Proceedings (mdpi)</i> , 2019 , 4, 37	0.3	15
46	A Review on the Application of Blockchain to the Next Generation of Cybersecure Industry 4.0 Smart Factories. <i>IEEE Access</i> , 2019 , 7, 45201-45218	3.5	133
45	A UAV and Blockchain-Based System for Industry 4.0 Inventory and Traceability Applications. <i>Proceedings (mdpi)</i> , 2019 , 4, 26	0.3	13

44	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. <i>Sensors</i> , 2019 , 19,	3.8	27
43	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> , 2019 , 19,	3.8	56
42	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> , 2019 , 9, 4479	2.6	48
41	Clock Frequency Impact on the Performance of High-Security Cryptographic Cipher Suites for Energy-Efficient Resource-Constrained IoT Devices. <i>Sensors</i> , 2018 , 19,	3.8	12
40	A Review on Industrial Augmented Reality Systems for the Industry 4.0 Shipyard. <i>IEEE Access</i> , 2018 , 6, 13358-13375	3.5	183
39	A Practical Evaluation of Commercial Industrial Augmented Reality Systems in an Industry 4.0 Shipyard. <i>IEEE Access</i> , 2018 , 6, 8201-8218	3.5	92
38	A Fog Computing and Cloudlet Based Augmented Reality System for the Industry 4.0 Shipyard. <i>Sensors</i> , 2018 , 18,	3.8	65
37	A Fog Computing Based Cyber-Physical System for the Automation of Pipe-Related Tasks in the Industry 4.0 Shipyard. <i>Sensors</i> , 2018 , 18,	3.8	42
36	A Plug-and-Play Human-Centered Virtual TEDS Architecture for the Web of Things. <i>Sensors</i> , 2018 , 18,	3.8	20
35	A Review on Human-Centered IoT-Connected Smart Labels for the Industry 4.0. <i>IEEE Access</i> , 2018 , 6, 25939-25957	3.5	85
34	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> , 2018 , 18,	3.8	85
33	A Practical Evaluation on RSA and ECC-Based Cipher Suites for IoT High-Security Energy-Efficient Fog and Mist Computing Devices. <i>Sensors</i> , 2018 , 18,	3.8	59
32	A Practical Performance Comparison of ECC and RSA for Resource-Constrained IoT Devices 2018 ,		24
31	Towards The Internet-of-Smart-Clothing: A Review on IoT Wearables and Garments for Creating Intelligent Connected E-Textiles. <i>Electronics (Switzerland)</i> , 2018 , 7, 405	2.6	105
30	A Cost-Effective IoT System for Monitoring Indoor Radon Gas Concentration. <i>Sensors</i> , 2018 , 18,	3.8	44
29	A Review on the Use of Blockchain for the Internet of Things. <i>IEEE Access</i> , 2018 , 6, 32979-33001	3.5	473
28	A Methodology for Evaluating Security in Commercial RFID Systems 2017 ,		16
27	RSS stabilization techniques for a real-time passive UHF RFID pipe monitoring system for smart shipyards 2017 ,		14

26	Reverse engineering the communications protocol of an RFID public transportation card 2017 ,		13
25	An IoT Monitoring System for Precision Viticulture 2017 ,		8
24	Enabling automatic event detection for the pipe workshop of the shipyard 4.0 2017 ,		10
23	A Practical Evaluation of a High-Security Energy-Efficient Gateway for IoT Fog Computing Applications. <i>Sensors</i> , 2017 , 17,	3.8	74
22	VineSens: An Eco-Smart Decision-Support Viticulture System. <i>Sensors</i> , 2017 , 17,	3.8	43
21	An Electricity Price-Aware Open-Source Smart Socket for the Internet of Energy. <i>Sensors</i> , 2017 , 17,	3.8	49
20	Towards the Internet of Smart Trains: A Review on Industrial IoT-Connected Railways. <i>Sensors</i> , 2017 , 17,	3.8	116
19	Design and Practical Evaluation of a Family of Lightweight Protocols for Heterogeneous Sensing through BLE Beacons in IoT Telemetry Applications. <i>Sensors</i> , 2017 , 18,	3.8	33
18	Reverse Engineering and Security Evaluation of Commercial Tags for RFID-Based IoT Applications. <i>Sensors</i> , 2016 , 17,	3.8	41
17	Home Automation System Based on Intelligent Transducer Enablers. <i>Sensors</i> , 2016 , 16,	3.8	30
16	A Review on Internet of Things for Defense and Public Safety. <i>Sensors</i> , 2016 , 16,	3.8	122
15	Smart Pipe System for a Shipyard 4.0. <i>Sensors</i> , 2016 , 16,	3.8	40
14	An Intelligent Power Outlet System for the Smart Home of the Internet of Things. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 214805	1.7	39
13	Evaluation of H.264/AVC over IEEE 802.11p vehicular networks. <i>Eurasip Journal on Advances in Signal Processing</i> , 2013 , 2013,	1.9	2
12	Real-time personal protective equipment monitoring system. <i>Computer Communications</i> , 2012 , 36, 42-50;1		57
11	Performance evaluation of multiple-antenna IEEE 802.11p transceivers using an FPGA-based MIMO vehicular channel emulator. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2012 ,	3.2	4
10	Enabling Collaborative Musical Activities through Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2012 , 8, 314078	1.7	4
9	Mobile WiMAX for vehicular applications: Performance evaluation and comparison against IEEE 802.11p/a. <i>Computer Networks</i> , 2011 , 55, 3784-3795	5.4	7

8	A Decision-Aided Strategy for Enhancing Transmissions in Wireless OSTBC-Based Systems. <i>Lecture Notes in Computer Science</i> , 2011 , 500-507	0.9	1
7	FPGA-Based Vehicular Channel Emulator for Real-Time Performance Evaluation of IEEE 802.11p Transceivers. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2010 , 2010,	3.2	12
6	FPGA-based vehicular channel emulator for evaluation of IEEE 802.11p transceivers 2009 ,		3
5	FlexVehd: A flexible testbed for vehicular radio interfaces 2008 ,		2
4	A distributed multilayer architecture enabling end-user access to MIMO testbeds 2008 ,		2
3	A comparative study of STBC transmissions at 2.4 GHz over indoor channels using a 2 × 2 MIMO testbed. <i>Wireless Communications and Mobile Computing</i> , 2008 , 8, 1149-1164	1.9	10
2	Performance of STBC transmissions with real data 2007 ,		3
1	A Flexible Testbed for the Rapid Prototyping of MIMO Baseband Modules 2006 ,		3