Tiago M FernÃ;ndez-Caramés

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Collaborative Industrial Augmented Reality Digital Twin: Developing theÂFuture ofÂShipyard 4.0. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 104-120.	0.3	4
2	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.	0.3	1
3	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.	4.2	4
4	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, 1865.	3.8	17
5	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, 5745.	3.8	107
6	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.	4.2	37
7	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.	0.4	1
8	Design, Implementation and Validation of a Bluetooth 5 Real-Time Monitoring System for Large Indoor Environments. Engineering Proceedings, 2021, 7, 18.	0.4	1
9	COVID-19 Digital Vaccination Passport Based on Blockchain with Its Own Cryptocurrency as a Reward and Mobile App for Its Use. Engineering Proceedings, 2021, 7, 35.	0.4	1
10	From Pre-Quantum to Post-Quantum IoT Security: A Survey on Quantum-Resistant Cryptosystems for the Internet of Things. IEEE Internet of Things Journal, 2020, 7, 6457-6480.	8.7	114
11	LoRaWAN and Blockchain based Safety and Health Monitoring System for Industry 4.0 Operators. Proceedings (mdpi), 2020, 42, 77.	0.2	4
12	A Collaborative Augmented Reality Application for Training and Assistance during Shipbuilding Assembly Processes. Proceedings (mdpi), 2020, 54, .	0.2	6
13	Decentralized P2P Broker for M2M and IoT Applications. Proceedings (mdpi), 2020, 54, .	0.2	2
14	Use Case Based Blended Teaching of IIoT Cybersecurity in the Industry 4.0 Era. Applied Sciences (Switzerland), 2020, 10, 5607.	2.5	17
15	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.	2.5	35
16	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, 6865.	3.8	46
17	Leveraging Blockchain for Sustainability and Open Innovation: A Cyber-Resilient Approach toward EU Green Deal and UN Sustainable Development Goals. , 2020, , .		6
18	Blockchain Technologies in Practice. IEEE Software, 2020, 37, 17-25.	1.8	3

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19	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.	4.2	23
20	Fake News, Disinformation, and Deepfakes: Leveraging Distributed Ledger Technologies and Blockchain to Combat Digital Deception and Counterfeit Reality. IT Professional, 2020, 22, 53-59.	1.5	41
21	Teaching and Learning IoT Cybersecurity and Vulnerability Assessment with Shodan through Practical Use Cases. Sensors, 2020, 20, 3048.	3.8	19
22	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, 3328.	3.8	34
23	Building Decentralized Fog Computing-Based Smart Parking Systems: From Deterministic Propagation Modeling to Practical Deployment. IEEE Access, 2020, 8, 117666-117688.	4.2	15
24	Towards Post-Quantum Blockchain: A Review on Blockchain Cryptography Resistant to Quantum Computing Attacks. IEEE Access, 2020, 8, 21091-21116.	4.2	227
25	Design and Empirical Validation of a LoRaWAN IoT Smart Irrigation System. Proceedings (mdpi), 2020, 42, .	0.2	21
26	Design and Experimental Validation of a LoRaWAN Fog Computing Based Architecture for IoT Enabled Smart Campus Applications. Sensors, 2019, 19, 3287.	3.8	51
27	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, 3319.	3.8	98
28	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.	2.5	95
29	A Review on IoT Deep Learning UAV Systems for Autonomous Obstacle Detection and Collision Avoidance. Remote Sensing, 2019, 11, 2144.	4.0	91
30	Clock Frequency Impact on the Performance of High-Security Cryptographic Cipher Suites for Energy-Efficient Resource-Constrained IoT Devices. Sensors, 2019, 19, 15.	3.8	23
31	A Review on Blockchain Technologies for an Advanced and Cyber-Resilient Automotive Industry. IEEE Access, 2019, 7, 17578-17598.	4.2	229
32	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, 2394.	3.8	198
33	Analysis, Design and Empirical Validation of a Smart Campus Based on LoRaWAN. Proceedings (mdpi), 2019, 4, 7.	0.2	2
34	A Review on the Application of Blockchain to the Next Generation of Cybersecure Industry 4.0 Smart Factories. IEEE Access, 2019, 7, 45201-45218.	4.2	217
35	Towards the Internet of Augmented Things: An Open-source Framework to Interconnect IoT Devices and Augmented Reality Systems. Proceedings (mdpi), 2019, 42, .	0.2	6
36	Wireless Channel Assessment of Auditoriums for the Deployment of Augmented Reality Systems for Enhanced Show Experience of Impaired Persons. Proceedings (mdpi), 2019, 42, .	0.2	2

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#	Article	IF	CITATIONS
37	A Review on Industrial Augmented Reality Systems for the Industry 4.0 Shipyard. IEEE Access, 2018, 6, 13358-13375.	4.2	295
38	A Practical Evaluation of Commercial Industrial Augmented Reality Systems in an Industry 4.0 Shipyard. IEEE Access, 2018, 6, 8201-8218.	4.2	136
39	A Practical Evaluation on RSA and ECC-Based Cipher Suites for IoT High-Security Energy-Efficient Fog and Mist Computing Devices. Sensors, 2018, 18, 3868.	3.8	81
40	A Practical Performance Comparison of ECC and RSA for Resource-Constrained IoT Devices. , 2018, , .		50
41	Towards The Internet-of-Smart-Clothing: A Review on IoT Wearables and Garments for Creating Intelligent Connected E-Textiles. Electronics (Switzerland), 2018, 7, 405.	3.1	192
42	Design and Practical Evaluation of a Family of Lightweight Protocols for Heterogeneous Sensing through BLE Beacons in IoT Telemetry Applications. Sensors, 2018, 18, 57.	3.8	43
43	A Cost-Effective IoT System for Monitoring Indoor Radon Gas Concentration. Sensors, 2018, 18, 2198.	3.8	58
44	A Review on the Use of Blockchain for the Internet of Things. IEEE Access, 2018, 6, 32979-33001.	4.2	737
45	A Fog Computing and Cloudlet Based Augmented Reality System for the Industry 4.0 Shipyard. Sensors, 2018, 18, 1798.	3.8	104
46	A Fog Computing Based Cyber-Physical System for the Automation of Pipe-Related Tasks in the Industry 4.0 Shipyard. Sensors, 2018, 18, 1961.	3.8	47
47	A Plug-and-Play Human-Centered Virtual TEDS Architecture for the Web of Things. Sensors, 2018, 18, 2052.	3.8	27
48	A Review on Human-Centered IoT-Connected Smart Labels for the Industry 4.0. IEEE Access, 2018, 6, 25939-25957.	4.2	117
49	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, 2660.	3.8	144
50	Design of a Fog Computing, Blockchain and IoT-Based Continuous Glucose Monitoring System for Crowdsourcing mHealth. Proceedings (mdpi), 2018, 4, .	0.2	25
51	A UAV and Blockchain-Based System for Industry 4.0 Inventory and Traceability Applications. Proceedings (mdpi), 2018, 4, .	0.2	20
52	RSS stabilization techniques for a real-time passive UHF RFID pipe monitoring system for smart shipyards. , 2017, , .		18
53	Reverse engineering the communications protocol of an RFID public transportation card. , 2017, , .		19

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55	An Open-Source IoT Power Outlet System for Scheduling Appliance Operation Intervals Based on Real-Time Electricity Cost. , 2017, , .		3
56	Enabling automatic event detection for the pipe workshop of the shipyard 4.0. , 2017, , .		14
57	A Practical Evaluation of a High-Security Energy-Efficient Gateway for IoT Fog Computing Applications. Sensors, 2017, 17, 1978.	3.8	96
58	Reverse Engineering and Security Evaluation of Commercial Tags for RFID-Based IoT Applications. Sensors, 2017, 17, 28.	3.8	57
59	VineSens: An Eco-Smart Decision-Support Viticulture System. Sensors, 2017, 17, 465.	3.8	63
60	An Electricity Price-Aware Open-Source Smart Socket for the Internet of Energy. Sensors, 2017, 17, 643.	3.8	57
61	Towards the Internet of Smart Trains: A Review on Industrial IoT-Connected Railways. Sensors, 2017, 17, 1457.	3.8	167
62	A Methodology for Evaluating Security in Commercial RFID Systems. , 2017, , .		17
63	Home Automation System Based on Intelligent Transducer Enablers. Sensors, 2016, 16, 1595.	3.8	38
64	A Review on Internet of Things for Defense and Public Safety. Sensors, 2016, 16, 1644.	3.8	172
65	Smart Pipe System for a Shipyard 4.0. Sensors, 2016, 16, 2186.	3.8	46
66	The ITG Smart Water Station. , 2015, , .		0
67	An Intelligent Power Outlet System for the Smart Home of the Internet of Things. International Journal of Distributed Sensor Networks, 2015, 11, 214805.	2.2	52
68	Evaluation of H.264/AVC over IEEE 802.11p vehicular networks. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.7	3
69	A decision-aided channel estimation strategy for the IEEE 802.11p standard. , 2012, , .		1
70	Real-time personal protective equipment monitoring system. Computer Communications, 2012, 36, 42-50.	5.1	103
71	Performance evaluation of multiple-antenna IEEE 802.11p transceivers using an FPGA-based MIMO vehicular channel emulator. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	7
72	Enabling Collaborative Musical Activities through Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2012, 8, 314078.	2.2	6

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73	Mobile WiMAX for vehicular applications: Performance evaluation and comparison against IEEE 802.11p/a. Computer Networks, 2011, 55, 3784-3795.	5.1	10
74	A Decision-Aided Strategy for Enhancing Transmissions in Wireless OSTBC-Based Systems. Lecture Notes in Computer Science, 2011, , 500-507.	1.3	1
75	FPGA-Based Vehicular Channel Emulator for Real-Time Performance Evaluation of IEEE 802.11p Transceivers. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	2.4	14
76	FPGA-based vehicular channel emulator for evaluation of IEEE 802.11p transceivers. , 2009, , .		11
77	A comparative study of STBC transmissions at 2.4 GHz over indoor channels using a 2 × 2 MIMO Wireless Communications and Mobile Computing, 2008, 8, 1149-1164.	testbed. 1.2	13
78	FlexVehd: A flexible testbed for vehicular radio interfaces. , 2008, , .		4
79	A distributed multilayer architecture enabling end-user access to MIMO testbeds. , 2008, , .		4
80	Performance of STBC transmissions with real data. , 2007, , .		4
81	A Flexible Testbed for the Rapid Prototyping of MIMO Baseband Modules. , 2006, , .		3
82	An IoT and Blockchain Based System for Monitoring and Tracking Real-Time Occupancy for COVID-19 Public Safety. , 0, , .		9
83	Analysis, Design and Practical Validation of an Augmented Reality Teaching System Based on Microsoft HoloLens 2 and Edge Computing. , 0, , .		7
84	Errealitate areagotuko sistema baten diseinu eta balioztatze esperimentala haririk gabeko integrazioarekin, auditoriumetan desgaitasuna pairatzen duten pertsonen esperientzia hobetzeko. , 0, ,		0
85	Introductory Chapter: On the Convergence of Blockchain and Artificial Intelligence - Opportunities and Challenges. , 0, , .		0