Antonio Javier GarcÃ-a-SÃ¡nchez

List of Publications by Year
in descending order

74 papers	1,232 citations	430874 18 h-index	395702 33 g-index
74 all docs	74 docs citations	74 times ranked	1354 citing authors

#	Article	IF	Citations
1	Wi-Fi RTT-Based Active Monopulse RADAR for Single Access Point Localization. IEEE Access, 2021, 9, 34755-34766.	4.2	19
2	Simultaneous Data Rate and Transmission Power Adaptation in V2V Communications: A Deep Reinforcement Learning Approach. IEEE Access, 2021, 9, 122067-122081.	4.2	6
3	MDPRP: A Q-Learning Approach for the Joint Control of Beaconing Rate and Transmission Power in VANETs. IEEE Access, 2021, 9, 10166-10178.	4.2	13
4	An Automatized Contextual Marketing System Based on a Wi-Fi Indoor Positioning System. Sensors, 2021, 21, 3495.	3.8	5
5	Simultaneous determination of four fertility-related hormones in saliva using disposable multiplexed immunoplatforms coupled to a custom-designed and field-portable potentiostat. Analytical Methods, 2021, 13, 3471-3478.	2.7	6
6	Nanorouter Awareness in Flow-Guided Nanocommunication Networks. , 2021, , .		2
7	An Efficient NVoD Scheme Using Implicit Error Correction and Subchannels for Wireless Networks. IEEE Transactions on Multimedia, 2020, 22, 2396-2408.	7.2	0
8	Throughput Optimization in Flow-Guided Nanocommunication Networks. IEEE Access, 2020, 8, 142875-142891.	4.2	6
9	Understanding the Applicability of Terahertz Flow-Guided Nano-Networks for Medical Applications. IEEE Access, 2020, 8, 214224-214239.	4.2	11
10	An Analytical Approach to Flow-Guided Nanocommunication Networks. Sensors, 2020, 20, 1332.	3.8	12
11	Deriving and Updating Optimal Transmission Configurations for Lora Networks. IEEE Access, 2020, 8, 38586-38595.	4.2	16
12	A Prototype Framework Design for Assisting the Detection of Atrial Fibrillation Using a Generic Low-Cost Biomedical Sensor. Sensors, 2020, 20, 896.	3.8	1
13	Quick and Cost-Effective Estimation of Vitamin C in Multifruit Juices Using Voltammetric Methods. Sensors, 2020, 20, 676.	3.8	5
14	A Performance Evaluation of an In-body Nano-Network Architecture. , 2020, , .		3
15	On the Feasibility of Flow-Guided Nanocommunication Networks for some Medical Applications. , 2020, , .		1
16	Enhanced determination of fertility hormones in saliva at disposable immunosensing platforms using a custom designed field-portable dual potentiostat. Sensors and Actuators B: Chemical, 2019, 299, 126934.	7.8	22
17	Performance optimization of LoRa nodes for the future smart city/industry. Eurasip Journal on Wireless Communications and Networking, 2019, 2019, .	2.4	25
18	Optimizing and Updating LoRa Communication Parameters: A Machine Learning Approach. IEEE Transactions on Network and Service Management, 2019, 16, 884-895.	4.9	62

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19	Symbolic Recurrence Analysis of RR Interval to Detect Atrial Fibrillation. Journal of Clinical Medicine, 2019, 8, 1840.	2.4	5
20	Time-to-Collision-Based Awareness and Congestion Control for Vehicular Communications. IEEE Access, 2019, 7, 154192-154208.	4.2	10
21	A Reinforcement Learning-Based Framework for the Exploitation of Multiple RATs in the IoT. IEEE Access, 2019, 7, 123341-123354.	4.2	12
22	Optimal Transmission Policy Derivation for IoNT Flow-Guided Nano-Sensor Networks. IEEE Internet of Things Journal, 2019, 6, 2288-2298.	8.7	19
23	Determination of Seasonality Patterns in the Transport of Cruise Travellers Through Clustering Techniques. Journal of Navigation, 2019, 72, 1417-1434.	1.7	10
24	An Alternative Internet-of-Things Solution Based
on LoRa for PV Power Plants: Data Monitoring
and Management. Energies, 2019, 12, 881.	3.1	47
25	Crowdsourcing Optimized Wireless Sensor Network Deployment in Smart Cities: A Keynote. Communications in Computer and Information Science, 2019, , 65-79.	0.5	1
26	Machine Learning Techniques Applied to Dose Prediction in Computed Tomography Tests. Sensors, 2019, 19, 5116.	3.8	5
27	On the Frame Length and the Maximum Achievable Channel Utilization of Flow-Guided Nanocommunication Networks. , 2019, , .		4
28	Determination of progesterone in saliva using an electrochemical immunosensor and a COTS-based portable potentiostat. Analytica Chimica Acta, 2019, 1049, 65-73.	5.4	38
29	A nanoscale communication network scheme and energy model for a human hand scenario. Nano Communication Networks, 2018, 15, 17-27.	2.9	58
30	Optimal Policy Derivation for Transmission Duty-Cycle Constrained LPWAN. IEEE Internet of Things Journal, 2018, 5, 3114-3125.	8.7	34
31	Improving RSSI-Based Path-Loss Models Accuracy for Critical Infrastructures: A Smart Grid Substation Case-Study. IEEE Transactions on Industrial Informatics, 2018, 14, 2230-2240.	11.3	30
32	The IEEE 1906.1 Standard: Some Guidelines for Strengthening Future Normalization in Electromagnetic Nanocommunications. IEEE Communications Standards Magazine, 2018, 2, 26-32.	4.9	8
33	SMART USAGE OF MULTIPLE RAT IN IOT-ORIENTED 5G NETWORKS: A REINFORCEMENT LEARNING APPROACH. , 2018, , .		6
34	Deployment of Air Quality Monitoring Sensors over a Delay Tolerant Mobile Ad-Hoc Network in Public Transportation Systems. , 2018, , .		2
35	Optimization of CT protocols using cause-and-effect analysis of outliers. Physica Medica, 2018, 55, 1-7.	0.7	8
36	On the Nature of Energy-Feasible Wireless Nanosensor Networks. Sensors, 2018, 18, 1356.	3.8	30

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37	Ionizing Radiation Measurement Solution in a Hospital Environment. Sensors, 2018, 18, 510.	3.8	8
38	A COTS-Based Portable System to Conduct Accurate Substance Concentration Measurements. Sensors, 2018, 18, 539.	3.8	12
39	A survey on non-linear optimization problems in wireless sensor networks. Journal of Network and Computer Applications, 2017, 82, 1-20.	9.1	37
40	Aerobiological importance and allergic sensitization to Amaranthaceae under arid climate conditions. Science of the Total Environment, 2017, 583, 478-486.	8.0	10
41	Radio-Channel Characterization of Smart Grid Substations in the 2.4-GHz ISM Band. IEEE Transactions on Wireless Communications, 2017, 16, 1294-1307.	9.2	10
42	A self-adaptive approach for traffic lights control in an urban network. , 2017, , .		4
43	The IEEE 1906.1 Standard: Nanocommunications as a new source of data. , 2017, , .		4
44	Evaluating the More Suitable ISM Frequency Band for IoT-Based Smart Grids: A Quantitative Study of 915 MHz vs. 2400 MHz. Sensors, 2017, 17, 76.	3.8	16
45	On the Feasibility of Wireless Multimedia Sensor Networks over IEEE 802.15.5 Mesh Topologies. Sensors, 2016, 16, 643.	3.8	11
46	Conceptual Design of a Nano-Networking Device. Sensors, 2016, 16, 2104.	3.8	30
47	Coordination and agreement among traffic signal controllers in urban areas. , 2016, , .		6
48	On the influence of the hidden and exposed terminal problems on asynchronous IEEE 802.15.5 networks. Computer Standards and Interfaces, 2015, 42, 53-70.	5.4	4
49	A study about trajectory planning sensitivity in high-speed cooperative collision avoidance. , 2015, , .		0
50	On the improvement of wireless mesh sensor network performance under hidden terminal problems. Future Generation Computer Systems, 2015, 45, 95-113.	7.5	10
51	A Comprehensive WSN-Based Approach to Efficiently Manage a Smart Grid. Sensors, 2014, 14, 18748-18783.	3.8	18
52	An experimental test-bed for the evaluation of the hidden terminal problems on the IEEE 802.15.5 standard. , 2014, , .		0
53	On Maximizing the Lifetime of Wireless Sensor Networks by Optimally Assigning Energy Supplies. Sensors, 2013, 13, 10219-10244.	3.8	28
54	Current Trends in Wireless Mesh Sensor Networks: A Review of Competing Approaches. Sensors, 2013, 13, 5958-5995.	3.8	24

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55	On the Optimization of Wireless Multimedia Sensor Networks: A Goal Programming Approach. Sensors, 2012, 12, 12634-12660.	3.8	9
56	The Role of Destination Spatial Spillovers and Technological Intensity in the Location of Manufacturing and Services Firms. Environment and Planning B: Planning and Design, 2012, 39, 991-1005.	1.7	4
57	On the role of wireless sensor networks in intelligent transportation systems. , 2012, , .		11
58	On the synchronization of IEEE 802.15.5 wireless mesh sensor networks: Shortcomings and improvements. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	2.4	6
59	Wireless sensor network deployment for integrating video-surveillance and data-monitoring in precision agriculture over distributed crops. Computers and Electronics in Agriculture, 2011, 75, 288-303.	7.7	191
60	Design and validation of a wireless sensor network architecture for precision horticulture applications. Precision Agriculture, 2011, 12, 280-295.	6.0	33
61	A cross-layer solution for enabling real-time video transmission over IEEE 802.15.4 networks. Multimedia Tools and Applications, 2011, 51, 1069-1104.	3.9	16
62	A Comprehensive Approach to WSN-Based ITS Applications: A Survey. Sensors, 2011, 11, 10220-10265.	3.8	81
63	A nomadic access mechanism for enabling dynamic video surveillance over IEEE 802.15.4 networks. Measurement Science and Technology, 2010, 21, 124006.	2.6	3
64	Wireless Sensor Network Deployment for Monitoring Wildlife Passages. Sensors, 2010, 10, 7236-7262.	3.8	90
65	Enhancements in the Orphan Process for Wireless Personal Area Networks: Real Implementation Scenarios. , 2009, , .		1
66	Optimized Orphan Algorithm for IEEE 802.15.4 networks. , 2009, , .		0
67	CONTENTS AND METHODOLOGY OF MIDDLEWARE PROGRAMMING FOR DISTANCE LEARNING IN MASTER PROGRAMS. , 2009, , .		0
68	An extension to the CORBA Audio/Video Streaming Service: A QoS adaptive middleware. , 2008, , .		2
69	Feasibility Study of MPEG-4 Transmission on IEEE 802.15.4 Networks. , 2008, , .		8
70	Energy-Efficient Mobile Middleware for SIP on Ubiquitous Multimedia Systems. Lecture Notes in Computer Science, 2008, , 735-747.	1.3	0
71	OMCPS: Optimized Middleware for a Content-based Publish/Subscribe Architecture. , 2007, , .		0
72	Comparative for Middleware Video Streaming Services. , 2007, , .		1

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73	A CORBA Bidirectional-Event Service for Video and Multimedia Applications. Lecture Notes in Computer Science, 2005, , 715-731.	1.3	2
74	Use of COTS for raw video streams integration. , 0, , .		0