Sandra Sendra

List of Publications by Year
in descending order

111 papers	3,320 citations	218677 26 h-index	189892 50 g-index
116 all docs	116 docs citations	116 times ranked	3355 citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on 5G Usage Scenarios and Traffic Models. IEEE Communications Surveys and Tutorials, 2020, 22, 905-929.	39.4	391
2	A Wireless Sensor Network Deployment for Rural and Forest Fire Detection and Verification. Sensors, 2009, 9, 8722-8747.	3.8	243
3	Underwater Acoustic Modems. IEEE Sensors Journal, 2016, 16, 4063-4071.	4.7	199
4	Underwater Wireless Sensor Communications in the 2.4 GHz ISM Frequency Band. Sensors, 2012, 12, 4237-4264.	3.8	145
5	Integration of LoRaWAN and 4G/5G for the Industrial Internet of Things. , 2018, 56, 60-67.		123
6	A Wireless Sensor Network for Vineyard Monitoring That Uses Image Processing. Sensors, 2011, 11, 6165-6196.	3.8	119
7	Power Saving and Energy Optimization Techniques for Wireless Sensor Neworks (Invited Paper). Journal of Communications, 2011, 6, .	1.6	107
8	A smart communication architecture for ambient assisted living. , 2015, 53, 26-33.		106
9	Design and Deployment of Low-Cost Sensors for Monitoring the Water Quality and Fish Behavior in Aquaculture Tanks during the Feeding Process. Sensors, 2018, 18, 750.	3.8	97
10	Systems and WBANs for Controlling Obesity. Journal of Healthcare Engineering, 2018, 2018, 1-21.	1.9	91
11	An IoT service-oriented system for agriculture monitoring. , 2017, , .		84
12	Development of a Conductivity Sensor for Monitoring Groundwater Resources to Optimize Water Management in Smart City Environments. Sensors, 2015, 15, 20990-21015.	3.8	77
13	Including artificial intelligence in a routing protocol using Software Defined Networks. , 2017, , .		77
14	A Smart Decision System for Digital Farming. Agronomy, 2019, 9, 216.	3.0	74
15	Software Defined Network-based control system for an efficient traffic management for emergency situations in smart cities. Future Generation Computer Systems, 2018, 88, 243-253.	7.5	71
16	Saving energy and improving communications using cooperative group-based Wireless Sensor Networks. Telecommunication Systems, 2013, 52, 2489-2502.	2.5	60
17	Monitoring and control sensor system for fish feeding in marine fish farms. IET Communications, 2011, 5, 1682-1690.	2.2	58
18	Smart System for Bicarbonate Control in Irrigation for Hydroponic Precision Farming. Sensors, 2018, 18, 1333.	3.8	57

#	ARTICLE	IF	CITATIONS
19	Internet of Things for Measuring Human Activities in Ambient Assisted Living and e-Health. Network Protocols and Algorithms, 2016, 8, 15.	1.0	49
20	Smart system for children's chronic illness monitoring. Information Fusion, 2018, 40, 76-86.	19.1	45
21	Smart Collaborative Mobile System for Taking Care of Disabled and Elderly People. Mobile Networks and Applications, 2014, 19, 287-302.	3.3	42
22	LoRaWAN Network for Fire Monitoring in Rural Environments. Electronics (Switzerland), 2020, 9, 531.	3.1	38
23	Underwater Wireless Communications in Freshwater at 2.4 GHz. IEEE Communications Letters, 2013, 17, 1794-1797.	4.1	37
24	A Wireless Sensor Network Deployment for Soil Moisture Monitoring in Precision Agriculture. Sensors, 2021, 21, 7243.	3.8	35
25	A secure and low-energy zone-based wireless sensor networks routing protocol for pollution monitoring. Wireless Communications and Mobile Computing, 2016, 16, 2869-2883.	1.2	34
26	Group-based underwater wireless sensor network for marine fish farms. , 2011, , .		33
27	Security in Vehicles With IoT by Prioritization Rules, Vehicle Certificates, and Trust Management. IEEE Internet of Things Journal, 2019, 6, 5927-5934.	8.7	33
28	A Smart Architecture for Diabetic Patient Monitoring Using Machine Learning Algorithms. Healthcare (Switzerland), 2020, 8, 348.	2.0	32
29	Cross-Layer Dynamic Admission Control for Cloud-Based Multimedia Sensor Networks. IEEE Systems Journal, 2014, 8, 235-246.	4.6	28
30	Design and deployment of a smart system for data gathering in aquaculture tanks using wireless sensor networks. International Journal of Communication Systems, 2017, 30, e3335.	2.5	27
31	OSPF routing protocol performance in Software Defined Networks. , 2017, , .		27
32	Low Cost LoRa based Network for Forest Fire Detection. , 2019, , .		27
33	Systems and Algorithms for Wireless Sensor Networks Based on Animal and Natural Behavior. International Journal of Distributed Sensor Networks, 2015, 11, 625972.	2.2	26
34	Multimedia sensors embedded in smartphones for ambient assisted living and e-health. Multimedia Tools and Applications, 2016, 75, 13271-13297.	3.9	26
35	IEEE 802.11a/b/g/n Indoor Coverage and Performance Comparison. , 2010, , .		25
36	An underwater wireless group-based sensor network for marine fish farms sustainability monitoring. Telecommunication Systems, 2015, 60, 67-84.	2.5	24

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37	Glucose Data Classification for Diabetic Patient Monitoring. Applied Sciences (Switzerland), 2019, 9, 4459.	2.5	24
38	Spontaneous Ad Hoc Mobile Cloud Computing Network. Scientific World Journal, The, 2014, 2014, 1-19.	2.1	22
39	Oceanographic Multisensor Buoy Based on Low Cost Sensors for Posidonia Meadows Monitoring in Mediterranean Sea. Journal of Sensors, 2015, 2015, 1-23.	1.1	22
40	LoRa-based Network for Water Quality Monitoring in Coastal Areas. Mobile Networks and Applications, 2023, 28, 65-81.	3.3	20
41	Ad hoc Network for Emergency Rescue System based on Unmanned Aerial Vehicles. Network Protocols and Algorithms, 2016, 7, 72.	1.0	19
42	Evaluation of CupCarbon Network Simulator for Wireless Sensor Networks. Network Protocols and Algorithms, 2018, 10, 1.	1.0	18
43	Saving Energy in Wireless Local Area Sensor Networks. Computer Journal, 2010, 53, 1658-1673.	2.4	17
44	Urban Lawn Monitoring in Smart City Environments. Journal of Sensors, 2018, 2018, 1-16.	1.1	17
45	Smart Wireless Sensor Network to Detect and Protect Sheep and Goats to Wolf Attacks. Recent Advances in Communications and Networking Technology, 2014, 2, 91-101.	0.1	16
46	Low cost wireless sensor network for salinity monitoring in mangrove forests. , 2014, , .		16
47	Design and deployment of a smart system for data gathering in estuaries using wireless sensor networks. , 2015, , .		15
48	The Use of Sensors for Monitoring the Feeding Process and Adjusting the Feed Supply Velocity in Fish Farms. Journal of Sensors, 2018, 2018, 1-14.	1.1	15
49	A sudden infant death prevention system for babies. , 2014, , .		13
50	IEEE 802.11a/b/g/n short-scale indoor wireless sensor placement. International Journal of Ad Hoc and Ubiquitous Computing, 2014, 15, 68.	0.5	13
51	Underwater Communications for Video Surveillance Systems at 2.4 GHz. Sensors, 2016, 16, 1769.	3.8	13
52	A wireless sensor network deployment to detect the degeneration of cement used in construction. International Journal of Ad Hoc and Ubiquitous Computing, 2014, 15, 147.	0.5	11
53	Intelligent Wireless Sensor Network Deployment for Smart Communities. IEEE Communications Magazine, 2018, 56, 176-182.	6.1	11
54	Dynamic metric OSPF-based routing protocol for Software Defined Networks. Cluster Computing, 2019, 22, 705-720.	5.0	11

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55	Software defined networks for traffic management in emergency situations. , 2018, , .		10
56	How the Atmospheric Variables Affect to the WLAN Datalink Layer Parameters. , 2010, , .		9
57	Underwater Communications in Wireless Sensor Networks using WLAN at 2.4 GHz. , 2011, , .		9
58	Study and Performance of Interior Gateway IP routing Protocols. Network Protocols and Algorithms, 2011, 2, .	1.0	9
59	Detection and protection of the attacks to the sheep and goats using an intelligent wireless sensor network. , 2013, , .		9
60	A hybrid NFCâ€"Bluetooth secure protocol for Credit Transfer among mobile phones. Security and Communication Networks, 2014, 7, 325-337.	1.5	9
61	A group-based architecture for grids. Telecommunication Systems, 2011, 46, 117-133.	2.5	8
62	Smart collaborative system using the sensors of mobile devices for monitoring disabled and elderly people. , 2012, , .		8
63	An ambient assisted living framework for mobile environments. , 2014, , .		8
64	Smart system to detect and track pollution in marine environments. , 2015, , .		8
65	Providing security and fault tolerance in P2P connections between clouds for mHealth services. Peer-to-Peer Networking and Applications, 2016, 9, 876-893.	3.9	8
66	Smart Infant Incubator Based on LoRa Networks. , 2018, , .		8
67	Collaborative LoRa-Based Sensor Network for Pollution Monitoring in Smart Cities. , 2019, , .		7
68	A Low-Cost Sensor for Detecting Illicit Discharge in Sewerage. Journal of Sensors, 2021, 2021, 1-16.	1.1	7
69	Router Power Consumption Analysis: Towards Green Communications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 28-37.	0.3	7
70	Cluster-Based Communication Protocol and Architecture for a Wastewater Purification System Intended for Irrigation. IEEE Access, 2021, 9, 142374-142389.	4.2	7
71	An Optimization Model with Network Edges for Multimedia Sensors Using Artificial Intelligence of Things. Sensors, 2021, 21, 7103.	3.8	7
72	IPTV performance in IEEE 802.11n WLANs. , 2010, , .		6

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73	A WiFi-Based Sensor Network for Flood Irrigation Control in Agriculture. Electronics (Switzerland), 2021, 10, 2454.	3.1	6
74	Low-cost wearable bluetooth sensor for epileptic episodes detection. , 2017, , .		5
75	An Energy-Efficient IoT Group-Based Architecture for Smart Cities. Studies in Systems, Decision and Control, 2019, , 111-127.	1.0	5
76	Study of the Optimum Frequency at 2.4GHz ISM Band for Underwater Wireless Ad Hoc Communications. Lecture Notes in Computer Science, 2012, , 260-273.	1.3	5
77	Sensors and their Application for Disabled and Elderly People. , 2011, , 311-330.		5
78	People Mobility Behaviour Study in a University Campus Using WLANs. , 2009, , .		4
79	MWAHCA: A Multimedia Wireless Ad Hoc Cluster Architecture. Scientific World Journal, The, 2014, 2014, 1-14.	2.1	4
80	Low cost wireless sensor network for rodents detection. , 2017, , .		4
81	Autonomous WSN for Lawns Monitoring in Smart Cities. , 2017, , .		4
82	Vertical WLAN handover algorithm and protocol to improve the IPTV QoS of the end user. , 2012, , .		3
83	Choosing the best video compression codec depending on the recorded environment. , 2014, , .		3
84	Energy consumption in software defined networks to provide service for mobile users. , 2017, , .		3
85	Low Cost Sensor to Measure Solid Concentrations in Wastewater. , 2018, , .		3
86	Editorial: Advances in Green Communications and Networking. Mobile Networks and Applications, 2019, 24, 653-656.	3.3	3
87	Adapting reinforcement learning for multimedia transmission on SDN. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3643.	3.9	3
88	A Smart Bluetooth-Based Ad Hoc Management System for Appliances in Home Environments. Lecture Notes in Computer Science, 2014, , 128-141.	1.3	3
89	WLAN IEEE 802.11b/g/n Coverage Study for Rural Areas. , 2020, , .		3
90	Do Sensed Atmospheric Variables Affect to the Network QoS Parameters in WLANs?. , 2010, , .		2

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91	Fault Tolerant Mechanism for Multimedia Flows in Wireless Ad Hoc Networks Based on Fast Switching Paths. Mathematical Problems in Engineering, 2014, 2014, 1-12.	1.1	2
92	Improving the Signal Propagation at 2.4ÂGHz Using Conductive Membranes. IEEE Systems Journal, 2017, 11, 2315-2324.	4.6	2
93	Underwater Ad Hoc Wireless Communication for Video Delivery. Wireless Personal Communications, 2017, 96, 5123-5144.	2.7	2
94	SmartFridge: The Intelligent System that Controls your Fridge. , 2018, , .		2
95	Autonomous video compression system for environmental monitoring. Network Protocols and Algorithms, 2018, 9, 48.	1.0	2
96	An IoT Group-Based Protocol for Smart City Interconnection. Communications in Computer and Information Science, 2019, , 164-178.	0.5	2
97	Low-Cost System for Travel Aid and Obstacles Detection for the Visually Impaired People. Lecture Notes in Electrical Engineering, 2019, , 287-304.	0.4	2
98	Non-invasive Wireless Mobile System for COVID-19 Monitoring in Nursing Homes. , 2020, , .		2
99	Cooperative assessment in the hands on skills of computer networks subjects. , 2010, , .		1
100	Energy Efficiency in Cooperative Wireless Sensor Networks. Mobile Networks and Applications, 2019, 24, 678-687.	3.3	1
101	Wireless Sensor Network to Create a Water Quality Observatory in Coastal Areas. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 100-118.	0.3	1
102	Sensors and their Application for Disabled and Elderly People. , 0, , 357-376.		1
103	An Anonymous Social Network Site to Share Pictures. , 2009, , .		0
104	Vibroacoustic Impact on the Architectonic Heritage When Using Replicas of 16th Century Weapons. Sensors, 2017, 17, 1871.	3.8	0
105	Impact of Pyrotechnics over the Architectonic Heritage. Journal of Sensors, 2017, 2017, 1-11.	1.1	0
106	Managing a Multi-device Multimedia Service Using Software Defined Networks. , 2019, , .		0
107	Network Performance in HTML5 Video Connections. Network Protocols and Algorithms, 2019, 10, 43.	1.0	0
108	Lora-Based System for Tracking Runners in Cross-Country Races. Proceedings (mdpi), 2019, 42, .	0.2	0

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109	A new system to detect coronavirus social distance violation. International Journal of Electrical and Computer Engineering, 2021, 11, 5034.	0.7	0
110	Cooperative Monitoring of the Delivery of Fresh Products. Lecture Notes in Computer Science, 2015, , 76-86.	1.3	0
111	Providing Outdoor and Indoor Ubiquity with WLANs. , 0, , 1155-1168.		0