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	LoRa-based Network for Water Quality Monitoring in Coastal Areas. Mobile Networks and Applications, 2023, 28, 65-81.	3.3	20
2	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
3	A Low-Cost Sensor for Detecting Illicit Discharge in Sewerage. Journal of Sensors, 2021, 2021, 1-16.	1.1	7
4	A new system to detect coronavirus social distance violation. International Journal of Electrical and Computer Engineering, 2021, 11, 5034.	0.7	0
5	Cluster-Based Communication Protocol and Architecture for a Wastewater Purification System Intended for Irrigation. IEEE Access, 2021, 9, 142374-142389.	4.2	7
6	A WiFi-Based Sensor Network for Flood Irrigation Control in Agriculture. Electronics (Switzerland), 2021, 10, 2454.	3.1	6
7	A Wireless Sensor Network Deployment for Soil Moisture Monitoring in Precision Agriculture. Sensors, 2021, 21, 7243.	3.8	35
8	An Optimization Model with Network Edges for Multimedia Sensors Using Artificial Intelligence of Things. Sensors, 2021, 21, 7103.	3.8	7
9	A Smart Architecture for Diabetic Patient Monitoring Using Machine Learning Algorithms. Healthcare (Switzerland), 2020, 8, 348.	2.0	32
10	A Survey on 5G Usage Scenarios and Traffic Models. IEEE Communications Surveys and Tutorials, 2020, 22, 905-929.	39.4	391
11	LoRaWAN Network for Fire Monitoring in Rural Environments. Electronics (Switzerland), 2020, 9, 531.	3.1	38
12	Non-invasive Wireless Mobile System for COVID-19 Monitoring in Nursing Homes. , 2020, , .		2
13	WLAN IEEE 802.11b/g/n Coverage Study for Rural Areas. , 2020, , .		3
14	Collaborative LoRa-Based Sensor Network for Pollution Monitoring in Smart Cities. , 2019, , .		7
15	Managing a Multi-device Multimedia Service Using Software Defined Networks. , 2019, , .		0
16	Editorial: Advances in Green Communications and Networking. Mobile Networks and Applications, 2019, 24, 653-656.	3.3	3
17	An Energy-Efficient IoT Group-Based Architecture for Smart Cities. Studies in Systems, Decision and Control, 2019, , 111-127.	1.0	5
18	Adapting reinforcement learning for multimedia transmission on SDN. Transactions on Emerging Telecommunications Technologies, 2019, 30, e3643.	3.9	3

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19	A Smart Decision System for Digital Farming. Agronomy, 2019, 9, 216.	3.0	74
20	An IoT Group-Based Protocol for Smart City Interconnection. Communications in Computer and Information Science, 2019, , 164-178.	0.5	2
21	Network Performance in HTML5 Video Connections. Network Protocols and Algorithms, 2019, 10, 43.	1.0	0
22	Glucose Data Classification for Diabetic Patient Monitoring. Applied Sciences (Switzerland), 2019, 9, 4459.	2.5	24
23	Low Cost LoRa based Network for Forest Fire Detection. , 2019, , .		27
24	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
25	Dynamic metric OSPF-based routing protocol for Software Defined Networks. Cluster Computing, 2019, 22, 705-720.	5.0	11
26	Energy Efficiency in Cooperative Wireless Sensor Networks. Mobile Networks and Applications, 2019, 24, 678-687.	3.3	1
27	Lora-Based System for Tracking Runners in Cross-Country Races. Proceedings (mdpi), 2019, 42, .	0.2	0
28	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
29	Integration of LoRaWAN and 4G/5G for the Industrial Internet of Things. , 2018, 56, 60-67.		123
30	Smart system for children's chronic illness monitoring. Information Fusion, 2018, 40, 76-86.	19.1	45
31	Low Cost Sensor to Measure Solid Concentrations in Wastewater. , 2018, , .		3
32	Smart Infant Incubator Based on LoRa Networks. , 2018, , .		8
33	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
34	SmartFridge: The Intelligent System that Controls your Fridge. , 2018, , .		2
35	Evaluation of CupCarbon Network Simulator for Wireless Sensor Networks. Network Protocols and Algorithms, 2018, 10, 1.	1.0	18
36	Autonomous video compression system for environmental monitoring. Network Protocols and Algorithms, 2018, 9, 48.	1.0	2

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37	Systems and WBANs for Controlling Obesity. Journal of Healthcare Engineering, 2018, 2018, 1-21.	1.9	91
38	Smart System for Bicarbonate Control in Irrigation for Hydroponic Precision Farming. Sensors, 2018, 18, 1333.	3.8	57
39	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
40	Intelligent Wireless Sensor Network Deployment for Smart Communities. IEEE Communications Magazine, 2018, 56, 176-182.	6.1	11
41	Urban Lawn Monitoring in Smart City Environments. Journal of Sensors, 2018, 2018, 1-16.	1.1	17
42	Software defined networks for traffic management in emergency situations. , 2018, , .		10
43	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
44	Improving the Signal Propagation at 2.4ÂGHz Using Conductive Membranes. IEEE Systems Journal, 2017, 11, 2315-2324.	4.6	2
45	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
46	OSPF routing protocol performance in Software Defined Networks. , 2017, , .		27
47	Energy consumption in software defined networks to provide service for mobile users. , 2017, , .		3
48	An IoT service-oriented system for agriculture monitoring. , 2017, , .		84
49	Low-cost wearable bluetooth sensor for epileptic episodes detection. , 2017, , .		5
50	Including artificial intelligence in a routing protocol using Software Defined Networks. , 2017, , .		77
51	Underwater Ad Hoc Wireless Communication for Video Delivery. Wireless Personal Communications, 2017, 96, 5123-5144.	2.7	2
52	Low cost wireless sensor network for rodents detection. , 2017, , .		4
53	Autonomous WSN for Lawns Monitoring in Smart Cities. , 2017, , .		4
54	Vibroacoustic Impact on the Architectonic Heritage When Using Replicas of 16th Century Weapons. Sensors, 2017, 17, 1871.	3.8	0

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55	Impact of Pyrotechnics over the Architectonic Heritage. Journal of Sensors, 2017, 2017, 1-11.	1.1	0
56	Internet of Things for Measuring Human Activities in Ambient Assisted Living and e-Health. Network Protocols and Algorithms, 2016, 8, 15.	1.0	49
57	Ad hoc Network for Emergency Rescue System based on Unmanned Aerial Vehicles. Network Protocols and Algorithms, 2016, 7, 72.	1.0	19
58	Underwater Communications for Video Surveillance Systems at 2.4 GHz. Sensors, 2016, 16, 1769.	3.8	13
59	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
60	Multimedia sensors embedded in smartphones for ambient assisted living and e-health. Multimedia Tools and Applications, 2016, 75, 13271-13297.	3.9	26
61	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
62	Underwater Acoustic Modems. IEEE Sensors Journal, 2016, 16, 4063-4071.	4.7	199
63	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
64	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
65	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
66	An underwater wireless group-based sensor network for marine fish farms sustainability monitoring. Telecommunication Systems, 2015, 60, 67-84.	2.5	24
67	A smart communication architecture for ambient assisted living. , 2015, 53, 26-33.		106
68	Design and deployment of a smart system for data gathering in estuaries using wireless sensor networks. , 2015, , .		15
69	Smart system to detect and track pollution in marine environments. , 2015, , .		8
70	Cooperative Monitoring of the Delivery of Fresh Products. Lecture Notes in Computer Science, 2015, , 76-86.	1.3	0
71	MWAHCA: A Multimedia Wireless Ad Hoc Cluster Architecture. Scientific World Journal, The, 2014, 2014, 1-14.	2.1	4
72	Spontaneous Ad Hoc Mobile Cloud Computing Network. Scientific World Journal, The, 2014, 2014, 1-19.	2.1	22

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73	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
74	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
75	A sudden infant death prevention system for babies. , 2014, , .		13
76	Low cost wireless sensor network for salinity monitoring in mangrove forests. , 2014, , .		16
77	An ambient assisted living framework for mobile environments. , 2014, , .		8
78	Choosing the best video compression codec depending on the recorded environment. , 2014, , .		3
79	Cross-Layer Dynamic Admission Control for Cloud-Based Multimedia Sensor Networks. IEEE Systems Journal, 2014, 8, 235-246.	4.6	28
80	Smart Collaborative Mobile System for Taking Care of Disabled and Elderly People. Mobile Networks and Applications, 2014, 19, 287-302.	3.3	42
81	A hybrid NFCâ€“Bluetooth secure protocol for Credit Transfer among mobile phones. Security and Communication Networks, 2014, 7, 325-337.	1.5	9
82	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
83	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
84	A Smart Bluetooth-Based Ad Hoc Management System for Appliances in Home Environments. Lecture Notes in Computer Science, 2014, , 128-141.	1.3	3
85	Saving energy and improving communications using cooperative group-based Wireless Sensor Networks. Telecommunication Systems, 2013, 52, 2489-2502.	2.5	60
86	Detection and protection of the attacks to the sheep and goats using an intelligent wireless sensor network. , 2013, , .		9
87	Underwater Wireless Communications in Freshwater at 2.4 GHz. IEEE Communications Letters, 2013, 17, 1794-1797.	4.1	37
88	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
89	Underwater Wireless Sensor Communications in the 2.4 GHz ISM Frequency Band. Sensors, 2012, 12, 4237-4264.	3.8	145
90	Vertical WLAN handover algorithm and protocol to improve the IPTV QoS of the end user. , 2012, , .		3

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91	Smart collaborative system using the sensors of mobile devices for monitoring disabled and elderly people. , 2012, , .		8
92	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
93	Underwater Communications in Wireless Sensor Networks using WLAN at 2.4 GHz. , 2011, , .		9
94	Study and Performance of Interior Gateway IP routing Protocols. Network Protocols and Algorithms, 2011, 2, .	1.0	9
95	Group-based underwater wireless sensor network for marine fish farms. , 2011, , .		33
96	Monitoring and control sensor system for fish feeding in marine fish farms. IET Communications, 2011, 5, 1682-1690.	2.2	58
97	A group-based architecture for grids. Telecommunication Systems, 2011, 46, 117-133.	2.5	8
98	A Wireless Sensor Network for Vineyard Monitoring That Uses Image Processing. Sensors, 2011, 11, 6165-6196.	3.8	119
99	Power Saving and Energy Optimization Techniques for Wireless Sensor Neworks (Invited Paper). Journal of Communications, 2011, 6, .	1.6	107
100	Sensors and their Application for Disabled and Elderly People. , 2011, , 311-330.		5
101	Saving Energy in Wireless Local Area Sensor Networks. Computer Journal, 2010, 53, 1658-1673.	2.4	17
102	IPTV performance in IEEE 802.11n WLANs. , 2010, , .		6
103	Do Sensed Atmospheric Variables Affect to the Network QoS Parameters in WLANs?. , 2010, , .		2
104	IEEE 802.11a/b/g/n Indoor Coverage and Performance Comparison. , 2010, , .		25
105	Cooperative assessment in the hands on skills of computer networks subjects. , 2010, , .		1
106	How the Atmospheric Variables Affect to the WLAN Datalink Layer Parameters. , 2010, , .		9
107	An Anonymous Social Network Site to Share Pictures. , 2009, , .		0
108	A Wireless Sensor Network Deployment for Rural and Forest Fire Detection and Verification. Sensors, 2009, 9, 8722-8747.	3.8	243

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109	People Mobility Behaviour Study in a University Campus Using WLANs. , 2009, , .		4
110	Sensors and their Application for Disabled and Elderly People. , 0, , 357-376.		1
111	Providing Outdoor and Indoor Ubiquity with WLANs. , 0, , 1155-1168.		0