

Sadik Kamel Gharghan

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,057
citations

331259

21
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243296

44
g-index

60
all docs

60
docs citations

60
times ranked

2044
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-Efficient Wireless Sensor Networks for Precision Agriculture: A Review. <i>Sensors</i> , 2017, 17, 1781.	2.1	414
2	Opportunities and Challenges for Near-Field Wireless Power Transfer: A Review. <i>Energies</i> , 2017, 10, 1022.	1.6	185
3	Accurate Wireless Sensor Localization Technique Based on Hybrid PSO-ANN Algorithm for Indoor and Outdoor Track Cycling. <i>IEEE Sensors Journal</i> , 2016, 16, 529-541.	2.4	139
4	Urban Water Demand Prediction for a City That Suffers from Climate Change and Population Growth: Gauteng Province Case Study. <i>Water (Switzerland)</i> , 2020, 12, 1885.	1.2	125
5	A Method for Predicting Long-Term Municipal Water Demands Under Climate Change. <i>Water Resources Management</i> , 2020, 34, 1265-1279.	1.9	106
6	Hybridised Artificial Neural Network Model with Slime Mould Algorithm: A Novel Methodology for Prediction of Urban Stochastic Water Demand. <i>Water (Switzerland)</i> , 2020, 12, 2692.	1.2	102
7	Wireless Power Transfer With Magnetic Resonator Coupling and Sleep/Active Strategy for a Drone Charging Station in Smart Agriculture. <i>IEEE Access</i> , 2019, 7, 139839-139851.	2.6	84
8	Accurate Empirical Path-Loss Model Based on Particle Swarm Optimization for Wireless Sensor Networks in Smart Agriculture. <i>IEEE Sensors Journal</i> , 2020, 20, 552-561.	2.4	79
9	A Novel Methodology for Prediction Urban Water Demand by Wavelet Denoising and Adaptive Neuro-Fuzzy Inference System Approach. <i>Water (Switzerland)</i> , 2020, 12, 1628.	1.2	76
10	Short-Term Urban Water Demand Prediction Considering Weather Factors. <i>Water Resources Management</i> , 2018, 32, 4527-4542.	1.9	56
11	Accurate Fall Detection and Localization for Elderly People Based on Neural Network and Energy-Efficient Wireless Sensor Network. <i>Energies</i> , 2018, 11, 2866.	1.6	47
12	A Wireless Sensor Network with Soft Computing Localization Techniques for Track Cycling Applications. <i>Sensors</i> , 2016, 16, 1043.	2.1	46
13	Adaptive Neural Fuzzy Inference System for Accurate Localization of Wireless Sensor Network in Outdoor and Indoor Cycling Applications. <i>IEEE Access</i> , 2018, 6, 38475-38489.	2.6	45
14	Energy-Efficient ZigBee-Based Wireless Sensor Network for Track Bicycle Performance Monitoring. <i>Sensors</i> , 2014, 14, 15573-15592.	2.1	41
15	Robust Hybrid Beamforming Scheme for Millimeter-Wave Massive-MIMO 5G Wireless Networks. <i>Symmetry</i> , 2019, 11, 1424.	1.1	38
16	Neural Network-Based Alzheimer's Patient Localization for Wireless Sensor Network in an Indoor Environment. <i>IEEE Access</i> , 2020, 8, 150527-150538.	2.6	34
17	Soil color analysis based on a RGB camera and an artificial neural network towards smart irrigation: A pilot study. <i>Heliyon</i> , 2021, 7, e06078.	1.4	33
18	Power Reduction with Sleep/Wake on Redundant Data (SWORD) in a Wireless Sensor Network for Energy-Efficient Precision Agriculture. <i>Sensors</i> , 2018, 18, 3450.	2.1	29

#	ARTICLE	IF	CITATIONS
19	An Advanced First Aid System Based on an Unmanned Aerial Vehicles and a Wireless Body Area Sensor Network for Elderly Persons in Outdoor Environments. <i>Sensors</i> , 2019, 19, 2955.	2.1	27
20	Accurate fall detection for patients with Parkinson's disease based on a data event algorithm and wireless sensor nodes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 156, 107573.	2.5	24
21	An Ultra-Low Power Wireless Sensor Network for Bicycle Torque Performance Measurements. <i>Sensors</i> , 2015, 15, 11741-11768.	2.1	23
22	Energy Efficiency of Ultra-Low-Power Bicycle Wireless Sensor Networks Based on a Combination of Power Reduction Techniques. <i>Journal of Sensors</i> , 2016, 2016, 1-21.	0.6	20
23	A System for Monitoring Breathing Activity Using an Ultrasonic Radar Detection with Low Power Consumption. <i>Journal of Sensor and Actuator Networks</i> , 2019, 8, 32.	2.3	19
24	FPGA-Based neural network for accurate distance estimation of elderly falls using WSN in an indoor environment. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 167, 108276.	2.5	19
25	A Survey on Energy Efficient Wireless Sensor Networks for Bicycle Performance Monitoring Application. <i>Journal of Sensors</i> , 2014, 2014, 1-16.	0.6	14
26	Ultrasound Sensor-Based Wireless Power Transfer for Low-Power Medical Devices. <i>Journal of Low Power Electronics and Applications</i> , 2019, 9, 20.	1.3	14
27	An Autonomous Wireless Health Monitoring System Based on Heartbeat and Accelerometer Sensors. <i>Journal of Sensor and Actuator Networks</i> , 2019, 8, 39.	2.3	14
28	A novel methodology to predict monthly municipal water demand based on weather variables scenario. <i>Journal of King Saud University, Engineering Sciences</i> , 2022, 34, 163-169.	1.2	14
29	Single-Tube and Multi-Turn Coil Near-Field Wireless Power Transfer for Low-Power Home Appliances. <i>Energies</i> , 2018, 11, 1969.	1.6	13
30	Hybrid Coils-Based Wireless Power Transfer for Intelligent Sensors. <i>Sensors</i> , 2020, 20, 2549.	2.1	12
31	Wireless Drone Charging Station Using Class-E Power Amplifier in Vertical Alignment and Lateral Misalignment Conditions. <i>Energies</i> , 2022, 15, 1298.	1.6	12
32	Near-field wireless power transfer used in biomedical implants: A comprehensive review. <i>IET Power Electronics</i> , 2022, 15, 1936-1955.	1.5	12
33	Design of Powering Wireless Medical Sensor Based on Spiral-Spider Coils. <i>Designs</i> , 2021, 5, 59.	1.3	11
34	Energy-Efficient Elderly Fall Detection System Based on Power Reduction and Wireless Power Transfer. <i>Sensors</i> , 2019, 19, 4452.	2.1	10
35	Cellular-D2D Resource Allocation Algorithm Based on User Fairness. <i>Electronics (Switzerland)</i> , 2020, 9, 386.	1.8	10
36	Path Loss Model-Based PSO for Accurate Distance Estimation in Indoor Environments. <i>Journal of Communications</i> , 2018, , 712-722.	1.3	10

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37	DEVELOPMENT AND VALIDATION OF A TRACK BICYCLE INSTRUMENT FOR TORQUE MEASUREMENT USING THE ZIGBEE WIRELESS SENSOR NETWORK. International Journal on Smart Sensing and Intelligent Systems, 2017, 10, 1-22.	0.4	9
38	Statistical validation of performance of ZigBee-based wireless sensor network for track cycling. , 2015, , .		8
39	Energy-Efficient Remote Temperature Monitoring System for Patients Based on GSM Modem and Microcontroller. Journal of Communications, 2017, , .	1.3	8
40	Hybridization of soft-computing algorithms with neural network for prediction obstructive sleep apnea using biomedical sensor measurements. Neural Computing and Applications, 2022, 34, 8933-8957.	3.2	8
41	Design and Implementation of Wireless Low-Power Transfer for Medical Implant Devices. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012087.	0.3	7
42	Wheelchair Control System based on Gyroscope of Wearable Tool for the Disabled. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012091.	0.3	7
43	Distance Estimation-Based PSO Between Patient with Alzheimerâ€™s Disease and Beacon Node in Wireless Sensor Networks. Arabian Journal for Science and Engineering, 2021, 46, 9345-9362.	1.7	7
44	Design Consideration of an Energy Efficient Wireless Sensor Network for High Performance Track Cycling. , 2014, , .		5
45	Path-loss modelling for WSN deployment in indoor and outdoor environments for medical applications. International Journal of Engineering and Technology(UAE), 2018, 7, 1666.	0.2	5
46	Localization Techniques for Blind People in Outdoor/Indoor Environments: Review. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012103.	0.3	5
47	Wireless Power Transfer Based on Spider Webâ€™Coil for Biomedical Implants. IEEE Access, 2021, 9, 167674-167686.	2.6	5
48	Empirical investigation of pedal power calculation techniques for track cycling performance measurement. , 2013, , .		4
49	A Survey on Detection and Prediction Methods for Sleep Apnea. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012102.	0.3	4
50	An Elderly First Aid System Based-Fall Detection and Unmanned Aerial Vehicle. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012096.	0.3	4
51	Free Battery-based Energy Harvesting Techniques for Medical Devices. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012094.	0.3	4
52	Electroencephalograph-Based Wheelchair Controlling System for the People with Motor Disability Using Advanced BrainWear. , 2019, , .		2
53	Accurate Localization of Elderly People Based on Neural and Wireless Sensor Networks. Journal of Engineering and Applied Sciences, 2019, 14, 3777-3789.	0.2	2
54	DIAGNOSIS OF COVID-19 BASED ON ARTIFICIAL INTELLIGENCE MODELS AND PHYSIOLOGICAL SENSORS: REVIEW. Biomedical Engineering - Applications, Basis and Communications, 0, , .	0.3	2

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55	Simulating a Stochastic Signal of Urban Water Demand by a Novel Combination of Data Analytic and Machine Learning Techniques. IOP Conference Series: Materials Science and Engineering, 2021, 1058, 012066.	0.3	1
56	Connected Bicycles: Potential Research Opportunities in Wireless Sensor Network. , 2017, , 273-294.		1
57	A survey on driver drowsiness detection using physiological, vehicular, and behavioral approaches. Bulletin of Electrical Engineering and Informatics, 2022, 11, 1489-1496.	0.6	1
58	Improved Control System Based on PSO and ANN for Social Distancing for Patients With COVID-19. IEEE Access, 2022, 10, 63797-63811.	2.6	1
59	Energy-Efficient Localization System for the Blind Based on an Awake/Sleep Scheduling Scheme. IOP Conference Series: Materials Science and Engineering, 2021, 1105, 012072.	0.3	0
60	ARDUINO-BASED WIRELESS SENSOR NETWORK FOR TRACK CYCLING PERFORMANCE MONITORING. , 0, , .		0