Sadik Kamel Gharghan

List of Publications by Year in descending order

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SADIK KAMEL CHARCHAN

#	Article	IF	CITATIONS
1	Energy-Efficient Wireless Sensor Networks for Precision Agriculture: A Review. Sensors, 2017, 17, 1781.	3.8	414
2	Opportunities and Challenges for Near-Field Wireless Power Transfer: A Review. Energies, 2017, 10, 1022.	3.1	185
3	Accurate Wireless Sensor Localization Technique Based on Hybrid PSO-ANN Algorithm for Indoor and Outdoor Track Cycling. IEEE Sensors Journal, 2016, 16, 529-541.	4.7	139
4	Urban Water Demand Prediction for a City That Suffers from Climate Change and Population Growth: Gauteng Province Case Study. Water (Switzerland), 2020, 12, 1885.	2.7	125
5	A Method for Predicting Long-Term Municipal Water Demands Under Climate Change. Water Resources Management, 2020, 34, 1265-1279.	3.9	106
6	Hybridised Artificial Neural Network Model with Slime Mould Algorithm: A Novel Methodology for Prediction of Urban Stochastic Water Demand. Water (Switzerland), 2020, 12, 2692.	2.7	102
7	Wireless Power Transfer With Magnetic Resonator Coupling and Sleep/Active Strategy for a Drone Charging Station in Smart Agriculture. IEEE Access, 2019, 7, 139839-139851.	4.2	84
8	Accurate Empirical Path-Loss Model Based on Particle Swarm Optimization for Wireless Sensor Networks in Smart Agriculture. IEEE Sensors Journal, 2020, 20, 552-561.	4.7	79
9	A Novel Methodology for Prediction Urban Water Demand by Wavelet Denoising and Adaptive Neuro-Fuzzy Inference System Approach. Water (Switzerland), 2020, 12, 1628.	2.7	76
10	Short-Term Urban Water Demand Prediction Considering Weather Factors. Water Resources Management, 2018, 32, 4527-4542.	3.9	56
11	Accurate Fall Detection and Localization for Elderly People Based on Neural Network and Energy-Efficient Wireless Sensor Network. Energies, 2018, 11, 2866.	3.1	47
12	A Wireless Sensor Network with Soft Computing Localization Techniques for Track Cycling Applications. Sensors, 2016, 16, 1043.	3.8	46
13	Adaptive Neural Fuzzy Inference System for Accurate Localization of Wireless Sensor Network in Outdoor and Indoor Cycling Applications. IEEE Access, 2018, 6, 38475-38489.	4.2	45
14	Energy-Efficient ZigBee-Based Wireless Sensor Network for Track Bicycle Performance Monitoring. Sensors, 2014, 14, 15573-15592.	3.8	41
15	Robust Hybrid Beamforming Scheme for Millimeter-Wave Massive-MIMO 5G Wireless Networks. Symmetry, 2019, 11, 1424.	2.2	38
16	Neural Network-Based Alzheimer's Patient Localization for Wireless Sensor Network in an Indoor Environment. IEEE Access, 2020, 8, 150527-150538.	4.2	34
17	Soil color analysis based on a RGB camera and an artificial neural network towards smart irrigation: A pilot study. Heliyon, 2021, 7, e06078.	3.2	33
18	Power Reduction with Sleep/Wake on Redundant Data (SWORD) in a Wireless Sensor Network for Energy-Efficient Precision Agriculture. Sensors, 2018, 18, 3450.	3.8	29

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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. Sensors, 2019, 19, 2955.	3.8	27
20	Accurate fall detection for patients with Parkinson's disease based on a data event algorithm and wireless sensor nodes. Measurement: Journal of the International Measurement Confederation, 2020, 156, 107573.	5.0	24
21	An Ultra-Low Power Wireless Sensor Network for Bicycle Torque Performance Measurements. Sensors, 2015, 15, 11741-11768.	3.8	23
22	Energy Efficiency of Ultra-Low-Power Bicycle Wireless Sensor Networks Based on a Combination of Power Reduction Techniques. Journal of Sensors, 2016, 2016, 1-21.	1.1	20
23	A System for Monitoring Breathing Activity Using an Ultrasonic Radar Detection with Low Power Consumption. Journal of Sensor and Actuator Networks, 2019, 8, 32.	3.9	19
24	FPGA-Based neural network for accurate distance estimation of elderly falls using WSN in an indoor environment. Measurement: Journal of the International Measurement Confederation, 2021, 167, 108276.	5.0	19
25	A Survey on Energy Efficient Wireless Sensor Networks for Bicycle Performance Monitoring Application. Journal of Sensors, 2014, 2014, 1-16.	1.1	14
26	Ultrasound Sensor-Based Wireless Power Transfer for Low-Power Medical Devices. Journal of Low Power Electronics and Applications, 2019, 9, 20.	2.0	14
27	An Autonomous Wireless Health Monitoring System Based on Heartbeat and Accelerometer Sensors. Journal of Sensor and Actuator Networks, 2019, 8, 39.	3.9	14
28	A novel methodology to predict monthly municipal water demand based on weather variables scenario. Journal of King Saud University, Engineering Sciences, 2022, 34, 163-169.	2.0	14
29	Single-Tube and Multi-Turn Coil Near-Field Wireless Power Transfer for Low-Power Home Appliances. Energies, 2018, 11, 1969.	3.1	13
30	Hybrid Coils-Based Wireless Power Transfer for Intelligent Sensors. Sensors, 2020, 20, 2549.	3.8	12
31	Wireless Drone Charging Station Using Class-E Power Amplifier in Vertical Alignment and Lateral Misalignment Conditions. Energies, 2022, 15, 1298.	3.1	12
32	Nearâ€field wireless power transfer used in biomedical implants: A comprehensive review. IET Power Electronics, 2022, 15, 1936-1955.	2.1	12
33	Design of Powering Wireless Medical Sensor Based on Spiral-Spider Coils. Designs, 2021, 5, 59.	2.4	11
34	Energy-Efficient Elderly Fall Detection System Based on Power Reduction and Wireless Power Transfer. Sensors, 2019, 19, 4452.	3.8	10
35	Cellular-D2D Resource Allocation Algorithm Based on User Fairness. Electronics (Switzerland), 2020, 9, 386.	3.1	10
36	Path Loss Model-Based PSO for Accurate Distance Estimation in Indoor Environments. Journal of Communications, 2018, , 712-722.	1.6	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.	0.7	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, , .	1.6	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.	5.6	8
41	Design and Implementation of Wireless Low-Power Transfer for Medical Implant Devices. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012087.	0.6	7
42	Wheelchair Control System based on Gyroscope of Wearable Tool for the Disabled. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012091.	0.6	7
43	Distance Estimation-Based PSO Between Patient with Alzheimer's Disease and Beacon Node in Wireless Sensor Networks. Arabian Journal for Science and Engineering, 2021, 46, 9345-9362.	3.0	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.	0.3	5
46	Localization Techniques for Blind People in Outdoor/Indoor Environments: Review. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012103.	0.6	5
47	Wireless Power Transfer Based on Spider Web–Coil for Biomedical Implants. IEEE Access, 2021, 9, 167674-167686.	4.2	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.	0.6	4
50	An Elderly First Aid System Based-Fall Detection and Unmanned Aerial Vehicle. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012096.	0.6	4
51	Free Battery-based Energy Harvesting Techniques for Medical Devices. IOP Conference Series: Materials Science and Engineering, 2020, 745, 012094.	0.6	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, , .	0.6	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.	0.6	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.	0.8	1
58	Improved Control System Based on PSO and ANN for Social Distancing for Patients With COVID-19. IEEE Access, 2022, 10, 63797-63811.	4.2	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.	0.6	0
60	ARDUINO-BASED WIRELESS SENSOR NETWORK FOR TRACK CYCLING PERFORMANCE MONITORING. , 0, , .		0