

Sandra Dudley

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

658
citations

687363

13
h-index

677142

22
g-index

57
all docs

57
docs citations

57
times ranked

639
citing authors

#	ARTICLE	IF	CITATIONS
1	HACH: Heuristic Algorithm for Clustering Hierarchy protocol in wireless sensor networks. Applied Soft Computing Journal, 2017, 55, 452-461.	7.2	58
2	Smart building creation in large scale HVAC environments through automated fault detection and diagnosis. Future Generation Computer Systems, 2020, 108, 950-966.	7.5	52
3	Machine Learning Approaches for Automated Lesion Detection in Microwave Breast Imaging Clinical Data. Scientific Reports, 2019, 9, 10510.	3.3	44
4	Non-Invasive Driver Drowsiness Detection System. Sensors, 2021, 21, 4833.	3.8	34
5	Detection of haemorrhagic stroke in simulation and realistic 3-D human head phantom using microwave imaging. Biomedical Signal Processing and Control, 2020, 61, 102001.	5.7	31
6	Do TETRA (Airwave) Base Station Signals Have a Short-Term Impact on Health and Well-Being? A Randomized Double-Blind Provocation Study. Environmental Health Perspectives, 2010, 118, 735-741.	6.0	30
7	Occupancy based household energy disaggregation using ultra wideband radar and electrical signature profiles. Energy and Buildings, 2017, 141, 134-141.	6.7	29
8	UWB localization employing supervised learning method. , 2017, , .		27
9	A Case Study Based Approach for Remote Fault Detection Using Multi-Level Machine Learning in A Smart Building. Smart Cities, 2020, 3, 401-419.	9.4	26
10	A Novel Approach to Railway Track Faults Detection Using Acoustic Analysis. Sensors, 2021, 21, 6221.	3.8	23
11	Signature Inspired Home Environments Monitoring System Using IR-UWB Technology. Sensors, 2019, 19, 385.	3.8	20
12	Cognitive and physiological responses in humans exposed to a TETRA base station signal in relation to perceived electromagnetic hypersensitivity. Bioelectromagnetics, 2012, 33, 23-39.	1.6	19
13	Respiration Based Non-Invasive Approach for Emotion Recognition Using Impulse Radio Ultra Wide Band Radar and Machine Learning. Sensors, 2021, 21, 8336.	3.8	19
14	Microwave Imaging for Stroke Detection: Validation on Head-mimicking Phantom. , 2019, , .		18
15	Free-Space Operating Microwave Imaging Device for Bone Lesion Detection: A Phantom Investigation. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2393-2397.	4.0	17
16	Non-Contact Human Gait Identification Through IR-UWB Edge-Based Monitoring Sensor. IEEE Sensors Journal, 2019, 19, 9282-9293.	4.7	15
17	A semantic-enhanced trajectory visual analytics for digital forensic. Journal of Visualization, 2015, 18, 173-184.	1.8	13
18	Huygens principle based UWB microwave imaging method for skin cancer detection. , 2016, , .		13

#	ARTICLE	IF	CITATIONS
19	Developing Artefact Removal Algorithms to Process Data from a Microwave Imaging Device for Haemorrhagic Stroke Detection. <i>Sensors</i> , 2020, 20, 5545.	3.8	13
20	Solar farm voltage anomaly detection using high-resolution $\sqrt{1/4}$ PMU data-driven unsupervised machine learning. <i>Applied Energy</i> , 2021, 303, 117656.	10.1	13
21	A novel design of UHF RFID passive tag antenna targeting smart cards limited area. , 2018, , .		12
22	A Phantom Investigation to Quantify Huygens Principle Based Microwave Imaging for Bone Lesion Detection. <i>Electronics (Switzerland)</i> , 2019, 8, 1505.	3.1	11
23	Radial Basis Function for Breast Lesion Detection from MammoWave Clinical Data. <i>Diagnostics</i> , 2021, 11, 1930.	2.6	11
24	A Self Regulating and Crowdsourced Indoor Positioning System through Wi-Fi Fingerprinting for Multi Storey Building. <i>Sensors</i> , 2018, 18, 3766.	3.8	10
25	Automated Peripheral Neuropathy Assessment Using Optical Imaging and Foot Anthropometry. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1911-1917.	4.2	9
26	Markerless Gait Classification Employing 3D IR-UWB Physiological Motion Sensing. <i>IEEE Sensors Journal</i> , 2022, 22, 6931-6941.	4.7	9
27	Experimental vital signs estimation using commercially available IR-UWB radar. , 2014, , .		5
28	A new approach for event detection using k-means clustering and neural networks. , 2015, , .		5
29	Unsupervised learning techniques for HVAC terminal unit behaviour analysis. , 2017, , .		5
30	Skin Cancer Detection through Microwaves: Validation on Phantom Measurements. , 2018, , .		5
31	A Microwave Imaging Procedure for Lung Lesion Detection: Preliminary Results on Multilayer Phantoms. <i>Electronics (Switzerland)</i> , 2022, 11, 2105.	3.1	5
32	Adaptive robust video broadcast via satellite. <i>Multimedia Tools and Applications</i> , 2017, 76, 7785-7801.	3.9	4
33	Single- and Multi-Distribution Dimensionality Reduction Approaches for a Better Data Structure Capturing. <i>IEEE Access</i> , 2020, 8, 207141-207155.	4.2	4
34	Automated terminal unit performance analysis employing x-RBF neural network and associated energy optimisation – A case study based approach. <i>Applied Energy</i> , 2021, 298, 117103.	10.1	4
35	3-D Gait Abnormality Detection Employing Contactless IR-UWB Sensing Phenomenon. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	4
36	VCSEL-based, CWDM - PON systems using reflective technology for bi-directional multi-play service provision. <i>Optics Express</i> , 2012, 20, 16726.	3.4	3

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37	Iterated local search algorithm for clustering wireless sensor networks. , 2016, , .		3
38	A PID inspired feature extraction method for HVAC terminal units. , 2017, , .		3
39	Semi-Supervised Learning Techniques for Automated Fault Detection and Diagnosis of HVAC Systems. , 2018, , .		3
40	ITERATOR: A 3D Gait Identification from IR-UWB Technology. , 2019, 2019, 782-787.		3
41	Tuneable optoelectronic bandpass filtering using a simple self-pulsating two-section laser. Optics Express, 2003, 11, 151.	3.4	2
42	Improved radio frequency imaging resolution using phase contrast interferometry. , 2009, , .		2
43	Remote, non-contact, radio frequency phase contrast detection using CWDM and directly modulated VCSELs. , 2011, , .		2
44	480Mbit/s UWB bi-directional radio over fiber CWDM PON using ultra-low cost and power VCSELs. Optics Express, 2011, 19, B197.	3.4	2
45	A user-centric system architecture for residential energy consumption reduction. , 2014, , .		2
46	A Heuristic Crossover Enhanced Evolutionary Algorithm for Clustering Wireless Sensor Network. Lecture Notes in Computer Science, 2016, , 251-266.	1.3	2
47	Experimental realization of a single-phase five level inverter for PV applications. , 2016, , .		2
48	A Non-Invasive Bone Fracture Monitoring Analysis using an UHF Antenna. , 2020, , .		2
49	Performance Analysis and Benchmarking of PLL-Driven Phasor Measurement Units for Renewable Energy Systems. Energies, 2022, 15, 1867.	3.1	2
50	Automated Semmes Weinstein monofilament examination replication using optical imaging and mechanical probe assembly. , 2015, , .		1
51	A novel single-phase thirteen level inverter for photovoltaic application. , 2016, , .		1
52	Phase-weighted UWB Imaging through Huygens Principle. , 2019, , .		1
53	UWB Microwave Imaging for Inclusions Detection: Methodology for Comparing Artefact Removal Algorithms. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 46-58.	0.3	1
54	Experimentally validated smart card ultra-high frequency tag antenna for free space and near body scenarios. IET Microwaves, Antennas and Propagation, 2020, 14, 1599-1609.	1.4	1

#	ARTICLE	IF	CITATIONS
55	An Analytically Based Approach for Evaluating the Impact of the Noise on the Microwave Imaging Detection. , 2021, , .		1
56	Gas Metering Using Optical Sensor. , 2019, , .		0