Sandra Dudley

List of Publications by Year
in descending order

56	658	687363 13	677142 22
papers	citations	h-index	g-index

57	57	57	639
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance Analysis and Benchmarking of PLL-Driven Phasor Measurement Units for Renewable Energy Systems. Energies, 2022, 15, 1867.	3.1	2
2	Markerless Gait Classification Employing 3D IR-UWB Physiological Motion Sensing. IEEE Sensors Journal, 2022, 22, 6931-6941.	4.7	9
3	A Microwave Imaging Procedure for Lung Lesion Detection: Preliminary Results on Multilayer Phantoms. Electronics (Switzerland), 2022, 11, 2105.	3.1	5
4	Non-Invasive Driver Drowsiness Detection System. Sensors, 2021, 21, 4833.	3.8	34
5	A Novel Approach to Railway Track Faults Detection Using Acoustic Analysis. Sensors, 2021, 21, 6221.	3.8	23
6	Automated terminal unit performance analysis employing x-RBF neural network and associated energy optimisation â€“ A case study based approach. Applied Energy, 2021, 298, 117103.	10.1	4
7	Solar farm voltage anomaly detection using high-resolution <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e442" altimg="si23.svg"><mml:mi>Î¼</mml:mi></mml:math>PMU data-driven unsupervised machine learning. Applied Energy, 2021, 303, 117656.	10.1	13
8	3-D Gait Abnormality Detection Employing Contactless IR-UWB Sensing Phenomenon. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	4
9	Radial Basis Function for Breast Lesion Detection from MammoWave Clinical Data. Diagnostics, 2021, 11, 1930.	2.6	11
10	An Analytically Based Approach for Evaluating the Impact of the Noise on the Microwave Imaging Detection. , 2021, , .		1
11	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
12	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
13	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
14	Single- and Multi-Distribution Dimensionality Reduction Approaches for a Better Data Structure Capturing. IEEE Access, 2020, 8, 207141-207155.	4.2	4
15	A Non-Invasive Bone Fracture Monitoring Analysis using an UHF Antenna. , 2020, , .		2
16	Developing Artefact Removal Algorithms to Process Data from a Microwave Imaging Device for Haemorrhagic Stroke Detection. Sensors, 2020, 20, 5545.	3.8	13
17	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
18	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

#	Article	IF	Citations
19	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
20	Experimentally validated smart card ultraâ€high frequency tag antenna for free space and near body scenarios. IET Microwaves, Antennas and Propagation, 2020, 14, 1599-1609.	1.4	1
21	Non-Contact Human Gait Identification Through IR-UWB Edge-Based Monitoring Sensor. IEEE Sensors Journal, 2019, 19, 9282-9293.	4.7	15
22	Machine Learning Approaches for Automated Lesion Detection in Microwave Breast Imaging Clinical Data. Scientific Reports, 2019, 9, 10510.	3.3	44
23	Signature Inspired Home Environments Monitoring System Using IR-UWB Technology. Sensors, 2019, 19, 385.	3.8	20
24	Microwave Imaging for Stroke Detection: Validation on Head-mimicking Phantom. , 2019, , .		18
25	Gas Metering Using Optical Sensor. , 2019, , .		0
26	ITERATOR: A 3D Gait Identification from IR-UWB Technology. , 2019, 2019, 782-787.		3
27	Phase-weighted UWB Imaging through Huygens Principle. , 2019, , .		1
28	A Phantom Investigation to Quantify Huygens Principle Based Microwave Imaging for Bone Lesion Detection. Electronics (Switzerland), 2019, 8, 1505.	3.1	11
29	A novel design of UHF RFID passive tag antenna targeting smart cards limited area. , 2018, , .		12
30	Semi-Supervised Learning Techniques for Automated Fault Detection and Diagnosis of HVAC Systems. , 2018, , .		3
31	Skin Cancer Detection through Microwaves: Validation on Phantom Measurements. , 2018, , .		5
32	A Self Regulating and Crowdsourced Indoor Positioning System through Wi-Fi Fingerprinting for Multi Storey Building. Sensors, 2018, 18, 3766.	3.8	10
33	Adaptive robust video broadcast via satellite. Multimedia Tools and Applications, 2017, 76, 7785-7801.	3.9	4
34	Occupancy based household energy disaggregation using ultra wideband radar and electrical signature profiles. Energy and Buildings, 2017, 141, 134-141.	6.7	29
35	HACH: Heuristic Algorithm for Clustering Hierarchy protocol in wireless sensor networks. Applied Soft Computing Journal, 2017, 55, 452-461.	7.2	58
36	A PID inspired feature extraction method for HVAC terminal units. , 2017, , .		3

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37	UWB localization employing supervised learning method. , 2017, , .		27
38	Unsupervised learning techniques for HVAC terminal unit behaviour analysis. , 2017, , .		5
39	Iterated local search algorithm for clustering wireless sensor networks. , 2016, , .		3
40	A novel single-phase thirteen level inverter for photovoltaic application. , 2016, , .		1
41	A Heuristic Crossover Enhanced Evolutionary Algorithm for Clustering Wireless SensorÂNetwork. Lecture Notes in Computer Science, 2016, , 251-266.	1.3	2
42	Huygens principle based UWB microwave imaging method for skin cancer detection. , 2016, , .		13
43	Experimental realization of a single-phase five level inverter for PV applications. , 2016, , .		2
44	A semantic-enhanced trajectory visual analytics for digital forensic. Journal of Visualization, 2015, 18, 173-184.	1.8	13
45	Automated Peripheral Neuropathy Assessment Using Optical Imaging and Foot Anthropometry. IEEE Transactions on Biomedical Engineering, 2015, 62, 1911-1917.	4.2	9
46	A new approach for event detection using k-means clustering and neural networks. , 2015, , .		5
47	Automated Semmes Weinstein monofilament examination replication using optical imaging and mechanical probe assembly. , 2015, , .		1
48	A user-centric system architecture for residential energy consumption reduction. , 2014, , .		2
49	Experimental vital signs estimation using commercially available IR-UWB radar. , 2014, , .		5
50	VCSEL-based, CWDM - PON systems using reflective technology for bi-directional multi-play service provision. Optics Express, 2012, 20, 16726.	3.4	3
51	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
52	Remote, non-contact, radio frequency phase contrast detection using CWDM and directly modulated VCSELs. , 2011, , .		2
53	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
54	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

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55	Improved radio frequency imaging resolution using phase contrast interferometry. , 2009, , .		2
56	Tuneable optoelectronic bandpass filtering using a simple self-pulsating two-section laser. Optics Express, 2003, 11, 151.	3.4	2