

Christos Tachtatzis

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

1,674
citations

394286

19
h-index

434063

31
g-index

80
all docs

80
docs citations

80
times ranked

1445
citing authors

#	ARTICLE	IF	CITATIONS
1	A Mapping Review of Real-Time Movement Sonification Systems for Movement Rehabilitation. IEEE Reviews in Biomedical Engineering, 2023, 16, 672-686.	13.1	7
2	Effect of oscillatory flow conditions on crystalliser fouling investigated through non-invasive imaging. Chemical Engineering Science, 2022, 252, 117188.	1.9	9
3	A Flexible Multi-Temporal and Multi-Modal Framework for Sentinel-1 and Sentinel-2 Analysis Ready Data. Remote Sensing, 2022, 14, 1120.	1.8	4
4	Cyber-Security Challenges in Aviation Industry: A Review of Current and Future Trends. Information (Switzerland), 2022, 13, 146.	1.7	19
5	Deep Internal Learning for Inpainting of Cloud-Affected Regions in Satellite Imagery. Remote Sensing, 2022, 14, 1342.	1.8	11
6	Behavioural Classification of Cattle Using Neck-Mounted Accelerometer-Equipped Collars. Sensors, 2022, 22, 2323.	2.1	13
7	A Review of Techniques for RSS-Based Radiometric Partial Discharge Localization. Sensors, 2021, 21, 909.	2.1	8
8	Machine Learning Based IoT Intrusion Detection System: An MQTT Case Study (MQTT-IoT-IDS2020) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	33
9	Utilising Flow Aggregation to Classify Benign Imitating Attacks. Sensors, 2021, 21, 1761.	2.1	2
10	Developing a Siamese Network for Intrusion Detection Systems. , 2021, , .		8
11	Classification of Cattle Behaviours Using Neck-Mounted Accelerometer-Equipped Collars and Convolutional Neural Networks. Sensors, 2021, 21, 4050.	2.1	22
12	Predicting feed intake using modelling based on feeding behaviour in finishing beef steers. Animal, 2021, 15, 100231.	1.3	6
13	A Comparison of the Performance of 2D and 3D Convolutional Neural Networks for Subsea Survey Video Classification. , 2021, , .		6
14	Utilising Deep Learning Techniques for Effective Zero-Day Attack Detection. Electronics (Switzerland), 2020, 9, 1684.	1.8	75
15	Quantification of particle size and concentration using in-line techniques and multivariate analysis. Powder Technology, 2020, 376, 1-11.	2.1	7
16	Non-Destructive Identification of Fibre Orientation in Multi-Ply Biaxial Laminates Using Contact Temperature Sensors. Sensors, 2020, 20, 3865.	2.1	4
17	On Models and Approaches for Human Vital Signs Extraction from Short Range Radar Signals. , 2020, , .		4
18	The Internet of Things enhancing animal welfare and farm operational efficiency. Journal of Dairy Research, 2020, 87, 20-27.	0.7	40

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19	Defect Detection in Aerospace Sandwich Composite Panels Using Conductive Thermography and Contact Sensors. <i>Sensors</i> , 2020, 20, 6689.	2.1	7
20	A Review of Cyber-Ranges and Test-Beds: Current and Future Trends. <i>Sensors</i> , 2020, 20, 7148.	2.1	49
21	Composite Laminate Delamination Detection Using Transient Thermal Conduction Profiles and Machine Learning Based Data Analysis. <i>Sensors</i> , 2020, 20, 7227.	2.1	2
22	Identifying Defects in Aerospace Composite Sandwich Panels Using High-Definition Distributed Optical Fibre Sensors. <i>Sensors</i> , 2020, 20, 6746.	2.1	5
23	A Taxonomy of Network Threats and the Effect of Current Datasets on Intrusion Detection Systems. <i>IEEE Access</i> , 2020, 8, 104650-104675.	2.6	107
24	Detecting Heat Stress in Dairy Cattle Using Neck-Mounted Activity Collars. <i>Agriculture (Switzerland)</i> , 2020, 10, 210.	1.4	19
25	Using animal-mounted sensor technology and machine learning to predict time-to-calving in beef and dairy cows. <i>Animal</i> , 2020, 14, 1304-1312.	1.3	30
26	Varietal Classification of Rice Seeds Using RGB and Hyperspectral Images. <i>IEEE Access</i> , 2020, 8, 22493-22505.	2.6	68
27	Automatic Annotation of Subsea Pipelines Using Deep Learning. <i>Sensors</i> , 2020, 20, 674.	2.1	13
28	Gated Pipelined Folding ADC-Based Low Power Sensor for Large-Scale Radiometric Partial Discharge Monitoring. <i>IEEE Sensors Journal</i> , 2020, 20, 7826-7836.	2.4	7
29	Interoperability and Integration Testing Methods for IoT Systems: A Systematic Mapping Study. <i>Lecture Notes in Computer Science</i> , 2020, , 93-112.	1.0	13
30	Cyber-Security Internals of a Skoda Octavia vRS: A Hands on Approach. <i>IEEE Access</i> , 2019, 7, 146057-146069.	2.6	13
31	A Novel Methodology for Macroscale, Thermal Characterization of Carbon Fiber-Reinforced Polymer for Integrated Aircraft Electrical Power Systems. <i>IEEE Transactions on Transportation Electrification</i> , 2019, 5, 479-489.	5.3	2
32	Low-complexity wireless sensor system for partial discharge localisation. <i>IET Wireless Sensor Systems</i> , 2019, 9, 158-165.	1.3	11
33	Simultaneous measurement of flame temperature and absorption coefficient through LMBC-NNLS and plenoptic imaging techniques. <i>Applied Thermal Engineering</i> , 2019, 154, 711-725.	3.0	18
34	Improving RF-Based Partial Discharge Localization via Machine Learning Ensemble Method. <i>IEEE Transactions on Power Delivery</i> , 2019, 34, 1478-1489.	2.9	35
35	Identification of the Rumination in Cattle Using Support Vector Machines with Motion-Sensitive Bolus Sensors. <i>Sensors</i> , 2019, 19, 1165.	2.1	36
36	Comparative Study of PCA and LDA for Rice Seeds Quality Inspection. , 2019, , .		7

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37	Partial Discharge Detection and Localization: Using Software-Defined Radio. IEEE Industrial Electronics Magazine, 2019, 13, 77-85.	2.3	9
38	RF-based location of partial discharge sources using received signal features. High Voltage, 2019, 4, 28-32.	2.7	13
39	Wireless Sensor Network for Radiometric Detection and Assessment of Partial Discharge in High-Voltage Equipment. Radio Science, 2018, 53, 357-364.	0.8	15
40	Radio location of partial discharge sources: a support vector regression approach. IET Science, Measurement and Technology, 2018, 12, 230-236.	0.9	19
41	An Efficient Algorithm for Partial Discharge Localization in High-Voltage Systems Using Received Signal Strength. Sensors, 2018, 18, 4000.	2.1	25
42	Multi-sensor inline measurements of crystal size and shape distributions during high shear wet milling of crystal slurries. Advanced Powder Technology, 2018, 29, 2987-2995.	2.0	16
43	A Supervisory System for Partial Discharge Monitoring. , 2018, , .		4
44	Localization of Partial Discharge by Using Received Signal Strength. , 2018, , .		4
45	Low Power High-Speed Folding ADC Based Partial Discharge Sensor for Wireless Fault Detection in Substations. , 2018, , .		6
46	Received Signal Strength Intensity Based Localization of Partial Discharge in High Voltage Systems. , 2018, , .		5
47	Image analysis framework with focus evaluation for in situ characterisation of particle size and shape attributes. Chemical Engineering Science, 2018, 191, 208-231.	1.9	41
48	Low power radiometric partial discharge sensor using composite transistor-reset integrator. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 984-992.	1.8	6
49	Crystal Shape Modification via Cycles of Growth and Dissolution in a Tubular Crystallizer. Crystal Growth and Design, 2018, 18, 4403-4415.	1.4	33
50	Machine Learning Approach for Detection of nonTor Traffic. , 2017, , .		28
51	Wireless MEMS sensors for precision farming. , 2017, , 215-238.		3
52	Diagnostic potential of free-space radiometric partial discharge measurements. , 2017, , .		1
53	Wireless sensor network for radiometric detection and assessment of partial discharge in HV equipment. , 2017, , .		12
54	Machine Learning Approach for Detection of nonTor Traffic. Journal of Cyber Security and Mobility, 2017, 6, 171-194.	0.7	2

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55	Spatial and spectral features utilization on a Hyperspectral imaging system for rice seed varietal purity inspection. , 2016, , .		11
56	Strategies for Protecting Intellectual Property when Using CUDA Applications on Graphics Processing Units. , 2016, , .		1
57	Threat analysis of IoT networks using artificial neural network intrusion detection system. , 2016, , .		289
58	Integration of in situ imaging and chord length distribution measurements for estimation of particle size and shape. Chemical Engineering Science, 2016, 144, 87-100.	1.9	40
59	Channel estimation and transmit power control in wireless body area networks. IET Wireless Sensor Systems, 2015, 5, 11-19.	1.3	32
60	Localisation of partial discharge sources using radio fingerprinting technique. , 2015, , .		18
61	Data remanence and digital forensic investigation for CUDA Graphics Processing Units. , 2015, , .		4
62	Automatic cattle location tracking using image processing. , 2015, , .		6
63	Wireless monitoring of scour and re-deposited sediment evolution at bridge foundations based on soil electromagnetic properties. Smart Materials and Structures, 2015, 24, 125029.	1.8	23
64	Image-based monitoring for early detection of fouling in crystallisation processes. Chemical Engineering Science, 2015, 133, 82-90.	1.9	23
65	Structural integrity monitoring of onshore wind turbine concrete foundations. Renewable Energy, 2015, 83, 1131-1138.	4.3	36
66	Radiometric Wireless Sensor Network Monitoring of Partial Discharge Sources in Electrical Substations. International Journal of Distributed Sensor Networks, 2015, 11, 438302.	1.3	31
67	A Highly-Efficient Memory-Compression Scheme for GPU-Accelerated Intrusion Detection Systems. , 2014, , .		9
68	GLoP. , 2014, , .		7
69	Structural health monitoring for wind turbine foundations. Proceedings of Institution of Civil Engineers: Energy, 2013, 166, 162-169.	0.5	8
70	An Energy Analysis of IEEE 802.15.6 Scheduled Access Modes for Medical Applications. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2012, , 209-222.	0.2	18
71	On-body to on-body channel characterization. , 2011, , .		11
72	Analysis of the Effect of Human Presence on a Wireless Sensor Network. International Journal of Ambient Computing and Intelligence, 2011, 3, 1-13.	0.8	3

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73	An energy analysis of IEEE 802.15.6 scheduled access modes. , 2010, , .		63
74	The effect of body shape and gender on wireless Body Area Network on-body channels. , 2010, , .		18
75	Current characterisation for ultra low power wireless body area networks. , 2010, , .		11
76	Adaptation of wireless sensor network for farming industries. , 2009, , .		17
77	Antenna and Base-Station Diversity for WSN Livestock Monitoring. Wireless Sensor Network, 2009, 01, 383-396.	0.3	7
78	Analysis of the Effect of Human Presence on a Wireless Sensor Network. , 0, , 1-11.		4