

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	Threat analysis of IoT networks using artificial neural network intrusion detection system. , 2016, , .		289
2	A Taxonomy of Network Threats and the Effect of Current Datasets on Intrusion Detection Systems. IEEE Access, 2020, 8, 104650-104675.	2.6	107
3	Utilising Deep Learning Techniques for Effective Zero-Day Attack Detection. Electronics (Switzerland), 2020, 9, 1684.	1.8	75
4	Varietal Classification of Rice Seeds Using RGB and Hyperspectral Images. IEEE Access, 2020, 8, 22493-22505.	2.6	68
5	An energy analysis of IEEE 802.15.6 scheduled access modes. , 2010, , .		63
6	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	53
7	A Review of Cyber-Ranges and Test-Beds: Current and Future Trends. Sensors, 2020, 20, 7148.	2.1	49
8	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
9	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
10	The Internet of Things enhancing animal welfare and farm operational efficiency. Journal of Dairy Research, 2020, 87, 20-27.	0.7	40
11	Structural integrity monitoring of onshore wind turbine concrete foundations. Renewable Energy, 2015, 83, 1131-1138.	4.3	36
12	Identification of the Rumination in Cattle Using Support Vector Machines with Motion-Sensitive Bolus Sensors. Sensors, 2019, 19, 1165.	2.1	36
13	Improving RF-Based Partial Discharge Localization via Machine Learning Ensemble Method. IEEE Transactions on Power Delivery, 2019, 34, 1478-1489.	2.9	35
14	Crystal Shape Modification via Cycles of Growth and Dissolution in a Tubular Crystallizer. Crystal Growth and Design, 2018, 18, 4403-4415.	1.4	33
15	Channel estimation and transmit power control in wireless body area networks. IET Wireless Sensor Systems, 2015, 5, 11-19.	1.3	32
16	Radiometric Wireless Sensor Network Monitoring of Partial Discharge Sources in Electrical Substations. International Journal of Distributed Sensor Networks, 2015, 11, 438302.	1.3	31
17	Using animal-mounted sensor technology and machine learning to predict time-to-calving in beef and dairy cows. Animal, 2020, 14, 1304-1312.	1.3	30
18	Machine Learning Approach for Detection of nonTor Traffic. , 2017, , .		28

#	ARTICLE	IF	CITATIONS
19	An Efficient Algorithm for Partial Discharge Localization in High-Voltage Systems Using Received Signal Strength. <i>Sensors</i> , 2018, 18, 4000.	2.1	25
20	Wireless monitoring of scour and re-deposited sediment evolution at bridge foundations based on soil electromagnetic properties. <i>Smart Materials and Structures</i> , 2015, 24, 125029.	1.8	23
21	Image-based monitoring for early detection of fouling in crystallisation processes. <i>Chemical Engineering Science</i> , 2015, 133, 82-90.	1.9	23
22	Classification of Cattle Behaviours Using Neck-Mounted Accelerometer-Equipped Collars and Convolutional Neural Networks. <i>Sensors</i> , 2021, 21, 4050.	2.1	22
23	Radio location of partial discharge sources: a support vector regression approach. <i>IET Science, Measurement and Technology</i> , 2018, 12, 230-236.	0.9	19
24	Detecting Heat Stress in Dairy Cattle Using Neck-Mounted Activity Collars. <i>Agriculture (Switzerland)</i> , 2020, 10, 210.	1.4	19
25	Cyber-Security Challenges in Aviation Industry: A Review of Current and Future Trends. <i>Information (Switzerland)</i> , 2022, 13, 146.	1.7	19
26	The effect of body shape and gender on wireless Body Area Network on-body channels. , 2010, , .		18
27	An Energy Analysis of IEEE 802.15.6 Scheduled Access Modes for Medical Applications. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2012, , 209-222.	0.2	18
28	Localisation of partial discharge sources using radio fingerprinting technique. , 2015, , .		18
29	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
30	Adaptation of wireless sensor network for farming industries. , 2009, , .		17
31	Multi-sensor inline measurements of crystal size and shape distributions during high shear wet milling of crystal slurries. <i>Advanced Powder Technology</i> , 2018, 29, 2987-2995.	2.0	16
32	Wireless Sensor Network for Radiometric Detection and Assessment of Partial Discharge in High-Voltage Equipment. <i>Radio Science</i> , 2018, 53, 357-364.	0.8	15
33	Cyber-Security Internals of a Skoda Octavia vRS: A Hands on Approach. <i>IEEE Access</i> , 2019, 7, 146057-146069.	2.6	13
34	RF-based location of partial discharge sources using received signal features. <i>High Voltage</i> , 2019, 4, 28-32.	2.7	13
35	Automatic Annotation of Subsea Pipelines Using Deep Learning. <i>Sensors</i> , 2020, 20, 674.	2.1	13
36	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

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37	Behavioural Classification of Cattle Using Neck-Mounted Accelerometer-Equipped Collars. <i>Sensors</i> , 2022, 22, 2323.	2.1	13
38	Wireless sensor network for radiometric detection and assessment of partial discharge in HV equipment. , 2017, , .		12
39	Current characterisation for ultra low power wireless body area networks. , 2010, , .		11
40	On-body to on-body channel characterization. , 2011, , .		11
41	Spatial and spectral features utilization on a Hyperspectral imaging system for rice seed varietal purity inspection. , 2016, , .		11
42	Low-complexity wireless sensor system for partial discharge localisation. <i>IET Wireless Sensor Systems</i> , 2019, 9, 158-165.	1.3	11
43	Deep Internal Learning for Inpainting of Cloud-Affected Regions in Satellite Imagery. <i>Remote Sensing</i> , 2022, 14, 1342.	1.8	11
44	A Highly-Efficient Memory-Compression Scheme for GPU-Accelerated Intrusion Detection Systems. , 2014, , .		9
45	Partial Discharge Detection and Localization: Using Software-Defined Radio. <i>IEEE Industrial Electronics Magazine</i> , 2019, 13, 77-85.	2.3	9
46	Effect of oscillatory flow conditions on crystalliser fouling investigated through non-invasive imaging. <i>Chemical Engineering Science</i> , 2022, 252, 117188.	1.9	9
47	Structural health monitoring for wind turbine foundations. <i>Proceedings of Institution of Civil Engineers: Energy</i> , 2013, 166, 162-169.	0.5	8
48	A Review of Techniques for RSS-Based Radiometric Partial Discharge Localization. <i>Sensors</i> , 2021, 21, 909.	2.1	8
49	Developing a Siamese Network for Intrusion Detection Systems. , 2021, , .		8
50	GLoP. , 2014, , .		7
51	Comparative Study of PCA and LDA for Rice Seeds Quality Inspection. , 2019, , .		7
52	Quantification of particle size and concentration using in-line techniques and multivariate analysis. <i>Powder Technology</i> , 2020, 376, 1-11.	2.1	7
53	Defect Detection in Aerospace Sandwich Composite Panels Using Conductive Thermography and Contact Sensors. <i>Sensors</i> , 2020, 20, 6689.	2.1	7
54	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

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55	Antenna and Base-Station Diversity for WSN Livestock Monitoring. <i>Wireless Sensor Network</i> , 2009, 01, 383-396.	0.3	7
56	A Mapping Review of Real-Time Movement Sonification Systems for Movement Rehabilitation. <i>IEEE Reviews in Biomedical Engineering</i> , 2023, 16, 672-686.	13.1	7
57	Automatic cattle location tracking using image processing. , 2015, , .		6
58	Low Power High-Speed Folding ADC Based Partial Discharge Sensor for Wireless Fault Detection in Substations. , 2018, , .		6
59	Low power radiometric partial discharge sensor using composite transistor-reset integrator. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018, 25, 984-992.	1.8	6
60	Predicting feed intake using modelling based on feeding behaviour in finishing beef steers. <i>Animal</i> , 2021, 15, 100231.	1.3	6
61	A Comparison of the Performance of 2D and 3D Convolutional Neural Networks for Subsea Survey Video Classification. , 2021, , .		6
62	Received Signal Strength Intensity Based Localization of Partial Discharge in High Voltage Systems. , 2018, , .		5
63	Identifying Defects in Aerospace Composite Sandwich Panels Using High-Definition Distributed Optical Fibre Sensors. <i>Sensors</i> , 2020, 20, 6746.	2.1	5
64	Data remanence and digital forensic investigation for CUDA Graphics Processing Units. , 2015, , .		4
65	A Supervisory System for Partial Discharge Monitoring. , 2018, , .		4
66	Localization of Partial Discharge by Using Received Signal Strength. , 2018, , .		4
67	Non-Destructive Identification of Fibre Orientation in Multi-Ply Biaxial Laminates Using Contact Temperature Sensors. <i>Sensors</i> , 2020, 20, 3865.	2.1	4
68	On Models and Approaches for Human Vital Signs Extraction from Short Range Radar Signals. , 2020, , .		4
69	Analysis of the Effect of Human Presence on a Wireless Sensor Network. , 0, , 1-11.		4
70	A Flexible Multi-Temporal and Multi-Modal Framework for Sentinel-1 and Sentinel-2 Analysis Ready Data. <i>Remote Sensing</i> , 2022, 14, 1120.	1.8	4
71	Wireless MEMS sensors for precision farming. , 2017, , 215-238.		3
72	Analysis of the Effect of Human Presence on a Wireless Sensor Network. <i>International Journal of Ambient Computing and Intelligence</i> , 2011, 3, 1-13.	0.8	3

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73	Machine Learning Approach for Detection of nonTor Traffic. Journal of Cyber Security and Mobility, 2017, 6, 171-194.	0.7	2
74	A Novel Methodology for Macroscale, Thermal Characterization of Carbon Fiber-Reinforced Polymer for Integrated Aircraft Electrical Power Systems. IEEE Transactions on Transportation Electrification, 2019, 5, 479-489.	5.3	2
75	Composite Laminate Delamination Detection Using Transient Thermal Conduction Profiles and Machine Learning Based Data Analysis. Sensors, 2020, 20, 7227.	2.1	2
76	Utilising Flow Aggregation to Classify Benign Imitating Attacks. Sensors, 2021, 21, 1761.	2.1	2
77	Strategies for Protecting Intellectual Property when Using CUDA Applications on Graphics Processing Units. , 2016, , .		1
78	Diagnostic potential of free-space radiometric partial discharge measurements. , 2017, , .		1