

Robert Atkinson

List of Publications by Year in descending order

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72
papers

1,346
citations

516561

16
h-index

501076

28
g-index

73
all docs

73
docs citations

73
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of oscillatory flow conditions on crystalliser fouling investigated through non-invasive imaging. Chemical Engineering Science, 2022, 252, 117188.	1.9	9
2	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
3	Cyber-Security Challenges in Aviation Industry: A Review of Current and Future Trends. Information (Switzerland), 2022, 13, 146.	1.7	19
4	Deep Internal Learning for Inpainting of Cloud-Affected Regions in Satellite Imagery. Remote Sensing, 2022, 14, 1342.	1.8	11
5	Behavioural Classification of Cattle Using Neck-Mounted Accelerometer-Equipped Collars. Sensors, 2022, 22, 2323.	2.1	13
6	A Review of Techniques for RSS-Based Radiometric Partial Discharge Localization. Sensors, 2021, 21, 909.	2.1	8
7	Machine Learning Based IoT Intrusion Detection System: An MQTT Case Study (MQTT-IoT-IDS2020) Tj ETQq1 1 0.784314 rgBT /Overlo 0.5 53	2.1	8
8	Utilising Flow Aggregation to Classify Benign Imitating Attacks. Sensors, 2021, 21, 1761.	2.1	2
9	Developing a Siamese Network for Intrusion Detection Systems. , 2021, , .		8
10	Classification of Cattle Behaviours Using Neck-Mounted Accelerometer-Equipped Collars and Convolutional Neural Networks. Sensors, 2021, 21, 4050.	2.1	22
11	A Comparison of the Performance of 2D and 3D Convolutional Neural Networks for Subsea Survey Video Classification. , 2021, , .		6
12	Utilising Deep Learning Techniques for Effective Zero-Day Attack Detection. Electronics (Switzerland), 2020, 9, 1684.	1.8	75
13	Non-Destructive Identification of Fibre Orientation in Multi-Ply Biaxial Laminates Using Contact Temperature Sensors. Sensors, 2020, 20, 3865.	2.1	4
14	Defect Detection in Aerospace Sandwich Composite Panels Using Conductive Thermography and Contact Sensors. Sensors, 2020, 20, 6689.	2.1	7
15	A Review of Cyber-Ranges and Test-Beds: Current and Future Trends. Sensors, 2020, 20, 7148.	2.1	49
16	Composite Laminate Delamination Detection Using Transient Thermal Conduction Profiles and Machine Learning Based Data Analysis. Sensors, 2020, 20, 7227.	2.1	2
17	A Taxonomy of Network Threats and the Effect of Current Datasets on Intrusion Detection Systems. IEEE Access, 2020, 8, 104650-104675.	2.6	107
18	Automatic Annotation of Subsea Pipelines Using Deep Learning. Sensors, 2020, 20, 674.	2.1	13

#	ARTICLE	IF	CITATIONS
19	Gated Pipelined Folding ADC-Based Low Power Sensor for Large-Scale Radiometric Partial Discharge Monitoring. IEEE Sensors Journal, 2020, 20, 7826-7836.	2.4	7
20	Interoperability and Integration Testing Methods for IoT Systems: A Systematic Mapping Study. Lecture Notes in Computer Science, 2020, , 93-112.	1.0	13
21	Cyber-Security Internals of a Skoda Octavia vRS: A Hands on Approach. IEEE Access, 2019, 7, 146057-146069.	2.6	13
22	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
23	Low-complexity wireless sensor system for partial discharge localisation. IET Wireless Sensor Systems, 2019, 9, 158-165.	1.3	11
24	Improving RF-Based Partial Discharge Localization via Machine Learning Ensemble Method. IEEE Transactions on Power Delivery, 2019, 34, 1478-1489.	2.9	35
25	Partial Discharge Detection and Localization: Using Software-Defined Radio. IEEE Industrial Electronics Magazine, 2019, 13, 77-85.	2.3	9
26	RF-based location of partial discharge sources using received signal features. High Voltage, 2019, 4, 28-32.	2.7	13
27	Wireless Sensor Network for Radiometric Detection and Assessment of Partial Discharge in High-Voltage Equipment. Radio Science, 2018, 53, 357-364.	0.8	15
28	Radio location of partial discharge sources: a support vector regression approach. IET Science, Measurement and Technology, 2018, 12, 230-236.	0.9	19
29	A Taxonomy of Malicious Traffic for Intrusion Detection Systems. , 2018, , .		8
30	An Efficient Algorithm for Partial Discharge Localization in High-Voltage Systems Using Received Signal Strength. Sensors, 2018, 18, 4000.	2.1	25
31	Localization of Partial Discharge by Using Received Signal Strength. , 2018, , .		4
32	Received Signal Strength Intensity Based Localization of Partial Discharge in High Voltage Systems. , 2018, , .		5
33	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
34	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
35	Assessment of Effective Radiated Power of the Partial Discharge Emulator Source. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 108-115.	0.2	0
36	Machine Learning Approach for Detection of nonTor Traffic. , 2017, , .		28

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37	Calibration of free-space radiometric partial discharge measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3004-3014.	1.8	21
38	Machine Learning Approach for Detection of nonTor Traffic. Journal of Cyber Security and Mobility, 2017, 6, 171-194.	0.7	2
39	Strategies for Protecting Intellectual Property when Using CUDA Applications on Graphics Processing Units. , 2016, , .		1
40	Threat analysis of IoT networks using artificial neural network intrusion detection system. , 2016, , .		289
41	Channel estimation and transmit power control in wireless body area networks. IET Wireless Sensor Systems, 2015, 5, 11-19.	1.3	32
42	Localisation of partial discharge sources using radio fingerprinting technique. , 2015, , .		18
43	KernelSOM handover optimisation: Outdoor performance evaluations. , 2015, , .		0
44	Data remanence and digital forensic investigation for CUDA Graphics Processing Units. , 2015, , .		4
45	Approximating Equilibrium in the Digital Marketplace. , 2015, , .		0
46	Challenges of security and trust in Avionics Wireless Networks. , 2015, , .		5
47	Image-based monitoring for early detection of fouling in crystallisation processes. Chemical Engineering Science, 2015, 133, 82-90.	1.9	23
48	Radiometric Wireless Sensor Network Monitoring of Partial Discharge Sources in Electrical Substations. International Journal of Distributed Sensor Networks, 2015, 11, 438302.	1.3	31
49	A Highly-Efficient Memory-Compression Scheme for GPU-Accelerated Intrusion Detection Systems. , 2014, , .		9
50	Radiometric location of partial discharge sources for the future smart grid. , 2014, , .		7
51	GLoP. , 2014, , .		7
52	Auction-Based Network Selection in a Market-Based Framework for Trading Wireless Communication Services. IEEE Transactions on Vehicular Technology, 2014, 63, 1365-1377.	3.9	14
53	Measurement of the tritium concentration in the fractionated distillate from environmental water samples. Journal of Environmental Radioactivity, 2014, 135, 113-119.	0.9	7
54	Development and validation of a simulator for wireless data acquisition in gas turbine engine testing. IET Wireless Sensor Systems, 2013, 3, 183-192.	1.3	9

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55	An Advanced SOM Algorithm Applied to Handover Management Within LTE. IEEE Transactions on Vehicular Technology, 2013, 62, 1883-1894.	3.9	45
56	Parameter Optimization for LTE Handover Using an Advanced SOM Algorithm. , 2013, , .		7
57	Wireless Communication Networks for Gas Turbine Engine Testing. International Journal of Distributed Sensor Networks, 2012, 8, 212876.	1.3	11
58	An international standard conceptual model for sharing references to hydrologic features. Journal of Hydrology, 2012, 424-425, 24-36.	2.3	8
59	Policy Based Mobility & Flow Management for IPv6 Heterogeneous Wireless Networks. Wireless Personal Communications, 2012, 62, 329-361.	1.8	6
60	A mobility framework to improve heterogeneous wireless network services. International Journal of Ad Hoc and Ubiquitous Computing, 2011, 7, 60.	0.3	10
61	Estimation of Impulsive Noise in an Electricity Substation. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 653-663.	1.4	36
62	RAID 6 Hardware Acceleration. Transactions on Embedded Computing Systems, 2011, 10, 1-17.	2.1	3
63	Traffic generation of IEC 61850 sampled values. , 2011, , .		18
64	Downlink TCP performance enhancement at handoff for FMIPv6-enabled nodes. , 2010, , .		2
65	An Optimum Network Selection Solution for Multihomed Hosts Using Hopfield Networks. , 2010, , .		2
66	Empirical modelling and simulation of transmission loss between wireless sensor nodes in gas turbine engines. , 2009, , .		3
67	QoS-Aware Network-supported Architecture to Distribute Application Flows over Multiple Network Interfaces for B3G Users. Wireless Personal Communications, 2009, 48, 113-140.	1.8	13
68	Proactive Route Optimization for Fast Mobile IPv6. , 2009, , .		6
69	Design and evaluation of flow handoff signalling for multihomed mobile nodes in wireless overlay networks. Computer Networks, 2008, 52, 1647-1674.	3.2	12
70	THE PERSONAL DISTRIBUTED ENVIRONMENT. IEEE Wireless Communications, 2007, 14, 62-69.	6.6	14
71	Interferometric Noise Characterisation of a 2-D Time Spreading Wavelength Hopping OCDMA Networks using FBG Encoding/Decoding. , 2007, , .		3
72	Design and evaluation of dynamic policy-based flow redirection for multihomed mobile networks. , 2007, , .		1