

# Robert Atkinson

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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	Machine Learning Based IoT Intrusion Detection System: An MQTT Case Study (MQTT-IoT-IDS2020) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 53	0.5	53
5	A Review of Cyber-Ranges and Test-Beds: Current and Future Trends. Sensors, 2020, 20, 7148.	2.1	49
6	An Advanced SOM Algorithm Applied to Handover Management Within LTE. IEEE Transactions on Vehicular Technology, 2013, 62, 1883-1894.	3.9	45
7	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
8	Estimation of Impulsive Noise in an Electricity Substation. IEEE Transactions on Electromagnetic Compatibility, 2011, 53, 653-663.	1.4	36
9	Improving RF-Based Partial Discharge Localization via Machine Learning Ensemble Method. IEEE Transactions on Power Delivery, 2019, 34, 1478-1489.	2.9	35
10	Channel estimation and transmit power control in wireless body area networks. IET Wireless Sensor Systems, 2015, 5, 11-19.	1.3	32
11	Radiometric Wireless Sensor Network Monitoring of Partial Discharge Sources in Electrical Substations. International Journal of Distributed Sensor Networks, 2015, 11, 438302.	1.3	31
12	Machine Learning Approach for Detection of nonTor Traffic. , 2017, , .		28
13	An Efficient Algorithm for Partial Discharge Localization in High-Voltage Systems Using Received Signal Strength. Sensors, 2018, 18, 4000.	2.1	25
14	Image-based monitoring for early detection of fouling in crystallisation processes. Chemical Engineering Science, 2015, 133, 82-90.	1.9	23
15	Classification of Cattle Behaviours Using Neck-Mounted Accelerometer-Equipped Collars and Convolutional Neural Networks. Sensors, 2021, 21, 4050.	2.1	22
16	Calibration of free-space radiometric partial discharge measurements. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3004-3014.	1.8	21
17	Radio location of partial discharge sources: a support vector regression approach. IET Science, Measurement and Technology, 2018, 12, 230-236.	0.9	19
18	Cyber-Security Challenges in Aviation Industry: A Review of Current and Future Trends. Information (Switzerland), 2022, 13, 146.	1.7	19

#	ARTICLE	IF	CITATIONS
19	Traffic generation of IEC 61850 sampled values. , 2011, , .		18
20	Localisation of partial discharge sources using radio fingerprinting technique. , 2015, , .		18
21	Wireless Sensor Network for Radiometric Detection and Assessment of Partial Discharge in High Voltage Equipment. Radio Science, 2018, 53, 357-364.	0.8	15
22	THE PERSONAL DISTRIBUTED ENVIRONMENT. IEEE Wireless Communications, 2007, 14, 62-69.	6.6	14
23	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
24	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
25	Cyber-Security Internals of a Skoda Octavia vRS: A Hands on Approach. IEEE Access, 2019, 7, 146057-146069.	2.6	13
26	RF-based location of partial discharge sources using received signal features. High Voltage, 2019, 4, 28-32.	2.7	13
27	Automatic Annotation of Subsea Pipelines Using Deep Learning. Sensors, 2020, 20, 674.	2.1	13
28	Interoperability and Integration Testing Methods for IoT Systems: A Systematic Mapping Study. Lecture Notes in Computer Science, 2020, , 93-112.	1.0	13
29	Behavioural Classification of Cattle Using Neck-Mounted Accelerometer-Equipped Collars. Sensors, 2022, 22, 2323.	2.1	13
30	Design and evaluation of flow handoff signalling for multihomed mobile nodes in wireless overlay networks. Computer Networks, 2008, 52, 1647-1674.	3.2	12
31	Wireless Communication Networks for Gas Turbine Engine Testing. International Journal of Distributed Sensor Networks, 2012, 8, 212876.	1.3	11
32	Low-complexity wireless sensor system for partial discharge localisation. IET Wireless Sensor Systems, 2019, 9, 158-165.	1.3	11
33	Deep Internal Learning for Inpainting of Cloud-Affected Regions in Satellite Imagery. Remote Sensing, 2022, 14, 1342.	1.8	11
34	A mobility framework to improve heterogeneous wireless network services. International Journal of Ad Hoc and Ubiquitous Computing, 2011, 7, 60.	0.3	10
35	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
36	A Highly-Efficient Memory-Compression Scheme for GPU-Accelerated Intrusion Detection Systems. , 2014, , .		9

#	ARTICLE	IF	CITATIONS
37	Partial Discharge Detection and Localization: Using Software-Defined Radio. IEEE Industrial Electronics Magazine, 2019, 13, 77-85.	2.3	9
38	Effect of oscillatory flow conditions on crystalliser fouling investigated through non-invasive imaging. Chemical Engineering Science, 2022, 252, 117188.	1.9	9
39	An international standard conceptual model for sharing references to hydrologic features. Journal of Hydrology, 2012, 424-425, 24-36.	2.3	8
40	A Taxonomy of Malicious Traffic for Intrusion Detection Systems. , 2018, , .		8
41	A Review of Techniques for RSS-Based Radiometric Partial Discharge Localization. Sensors, 2021, 21, 909.	2.1	8
42	Developing a Siamese Network for Intrusion Detection Systems. , 2021, , .		8
43	Parameter Optimization for LTE Handover Using an Advanced SOM Algorithm. , 2013, , .		7
44	Radiometric location of partial discharge sources for the future smart grid. , 2014, , .		7
45	GLoP. , 2014, , .		7
46	Measurement of the tritium concentration in the fractionated distillate from environmental water samples. Journal of Environmental Radioactivity, 2014, 135, 113-119.	0.9	7
47	Defect Detection in Aerospace Sandwich Composite Panels Using Conductive Thermography and Contact Sensors. Sensors, 2020, 20, 6689.	2.1	7
48	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
49	Proactive Route Optimization for Fast Mobile IPv6. , 2009, , .		6
50	Policy Based Mobility & Flow Management for IPv6 Heterogeneous Wireless Networks. Wireless Personal Communications, 2012, 62, 329-361.	1.8	6
51	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
52	A Comparison of the Performance of 2D and 3D Convolutional Neural Networks for Subsea Survey Video Classification. , 2021, , .		6
53	Challenges of security and trust in Avionics Wireless Networks. , 2015, , .		5
54	Received Signal Strength Intensity Based Localization of Partial Discharge in High Voltage Systems. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
55	Data remanence and digital forensic investigation for CUDA Graphics Processing Units. , 2015, , .		4
56	Localization of Partial Discharge by Using Received Signal Strength. , 2018, , .		4
57	Non-Destructive Identification of Fibre Orientation in Multi-Ply Biaxial Laminates Using Contact Temperature Sensors. Sensors, 2020, 20, 3865.	2.1	4
58	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
59	Interferometric Noise Characterisation of a 2-D Time Spreading Wavelength Hopping OCDMA Networks using FBG Encoding/Decoding. , 2007, , .		3
60	Empirical modelling and simulation of transmission loss between wireless sensor nodes in gas turbine engines. , 2009, , .		3
61	RAID 6 Hardware Acceleration. Transactions on Embedded Computing Systems, 2011, 10, 1-17.	2.1	3
62	Downlink TCP performance enhancement at handoff for FMIPv6-enabled nodes. , 2010, , .		2
63	An Optimum Network Selection Solution for Multihomed Hosts Using Hopfield Networks. , 2010, , .		2
64	Machine Learning Approach for Detection of nonTor Traffic. Journal of Cyber Security and Mobility, 2017, 6, 171-194.	0.7	2
65	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
66	Composite Laminate Delamination Detection Using Transient Thermal Conduction Profiles and Machine Learning Based Data Analysis. Sensors, 2020, 20, 7227.	2.1	2
67	Utilising Flow Aggregation to Classify Benign Imitating Attacks. Sensors, 2021, 21, 1761.	2.1	2
68	Design and evaluation of dynamic policy-based flow redirection for multihomed mobile networks. , 2007, , .		1
69	Strategies for Protecting Intellectual Property when Using CUDA Applications on Graphics Processing Units. , 2016, , .		1
70	KernelSOM handover optimisation: Outdoor performance evaluations. , 2015, , .		0
71	Approximating Equilibrium in the Digital Marketplace. , 2015, , .		0
72	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