Ian Welch

List of Publications by Year
in descending order

74	962	1040056	580821
papers	citations	9 h-index	25 g-index

78	78	78	912
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reliability in wireless sensor networks: A survey and challenges ahead. Computer Networks, 2015, 79, 166-187.	5.1	259
2	Security threats and solutions in MANETs: A case study using AODV and SAODV. Journal of Network and Computer Applications, 2012, 35, 1249-1259.	9.1	96
3	Identification of Malicious Web Pages with Static Heuristics. , 2008, , .		75
4	Intrusion-tolerant middleware: the road to automatic security. IEEE Security and Privacy, 2006, 4, 54-62.	1.2	56
5	Fog-Assisted SDN Controlled Framework for Enduring Anomaly Detection in an IoT Network. IEEE Access, 2018, 6, 73713-73723.	4.2	47
6	Capture â€“ A behavioral analysis tool for applications and documents. Digital Investigation, 2007, 4, 23-30.	3.2	34
7	Review and Analyzing RFID Technology Tags and Applications. , 2019, , .		31
8	A new multi classifier system using entropy-based features in DDoS attack detection. , 2018, , .		29
9	A Machine Learning Based Web Spam Filtering Approach. , 2016, , .		27
10	From Dalang to Kava - the Evolution of a Reflective Java Extension. Lecture Notes in Computer Science, 1999, , 2-21.	1.3	21
11	Towards Secure Smart Home IoT: Manufacturer and User Network Access Control Framework. , 2018, , .		18
12	Identification of malicious web pages through analysis of underlying DNS and web server relationships. , 2008, , .		15
13	Impacts of Power Factor Control Schemes in Time Series Power Flow Analysis for Centralized PV Plants Using Wavelet Variability Model. IEEE Transactions on Industrial Informatics, 2017, 13, 3185-3194.	11.3	15
14	Autoencoder-based feature construction for IoT attacks clustering. Future Generation Computer Systems, 2022, 127, 487-502.	7.5	14
15	A Survey on Cyber Situation-awareness Systems: Framework, Techniques, and Insights. ACM Computing Surveys, 2023, 55, 1-37.	23.0	14
16	Network-wide virtual firewall using SDN/OpenFlow. , 2016, , .		11
17	Indoor Roaming Activity Detection and Analysis of Elderly People using RFID Technology. , 2019, , .		11
18	Kava - A Reflective Java Based on Bytecode Rewriting. Lecture Notes in Computer Science, 2000, , 155-167.	1.3	11

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19	True Positive Cost Curve: A Cost-Based Evaluation Method for High-Interaction Client Honeypots. , 2009, , .		10
20	A Measurement Study of IoT-Based Attacks Using IoT Kill Chain. , 2020, , .		9
21	Internet background radiation arrival density and network telescope sampling strategies. , 2007, , .		8
22	Grid capacity released analysis and incremental addition computation for distribution system planning. Electric Power Systems Research, 2017, 152, 105-121.	3.6	8
23	Adaptation of Connectors in Software Architectures. Lecture Notes in Computer Science, 1998, , 145-146.	1.3	8
24	Application of divide-and-conquer algorithm paradigm to improve the detection speed of high interaction client honeypots. , 2008, , .		7
25	Determining Home Users' Vulnerability to Universal Plug and Play (UPnP) Attacks. , 2013, , .		7
26	An efficient approach for feature construction of high-dimensional microarray data by random projections. PLoS ONE, 2018, 13, e0196385.	2.5	7
27	Modelling impacts of utility-scale photovoltaic systems variability using the wavelet variability model for smart grid operations. Sustainable Energy Technologies and Assessments, 2019, 31, 292-305.	2.7	7
28	Re-engineering Security as a Crosscutting Concern. Computer Journal, 2003, 46, 578-589.	2.4	6
29	Grid Enabled Internet Instruments. , 2007, , .		6
30	Two-Stage Classification Model to Detect Malicious Web Pages. , 2011, , .		6
31	Efficient and secure data aggregation for smart metering networks. , 2013, , .		6
32	A protocol for verification of an auction without revealing bid values. Procedia Computer Science, 2010, 1, 2649-2658.	2.0	5
33	Novel Features for Web Spam Detection. , 2016, , .		5
34	Automatic Device Selection and Access Policy Generation Based on User Preference for IoT Activity Workflow. , 2019, , .		5
35	Using Reflection as a Mechanism for Enforcing Security Policies in Mobile Code. Lecture Notes in Computer Science, 2000, , 309-323.	1.3	5
36	Designing Workflows for Grid Enabled Internet Instruments. , 2008, , .		3

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37	An Android Security Policy Enforcement Tool. International Journal of Electronics and Telecommunications, 2015, 61, 311-320.	0.6	3
38	Global and local knowledge in SDN. , 2015, , .		3
39	Application of HAZOP to the Design of Cyber Security Experiments. , 2016, , .		3
40	Real-world IP and network tracking measurement study of malicious websites with HAZOP. International Journal of Computers and Applications, 2017, 39, 106-121.	1.3	3
41	IoT Application-Centric Access Control (ACAC). , 2019, , .		3
42	Achieving IoT Devices Secure Sharing in Multi-User Smart Space. , 2020, , .		3
43	Empirical Analysis of Impact of HTTP Referer on Malicious Website Behaviour and Delivery. , 2016, , .		2
44	Cluster-than-Label: Semi-Supervised Approach for Domain Adaptation. , 2017, , .		2
45	Grid incremental capacity evaluation with an optimally deployed photovoltaic system in distribution network. , 2017, , .		2
46	Geolocation Tracking and Cloaking of Malicious Web Sites. , 2019, , .		2
47	Failure Modes and Effects Analysis (FMEA) of Honeypot-Based Cybersecurity Experiment for IoT. , 2021, , .		2
48	Internet Sensor Grid: Experiences with Passive and Active Instruments. International Federation for Information Processing, 2010, , 132-145.	0.4	2
49	Structured Handling of Online Interface Upgrades in Integrating Dependable Systems of Systems. Lecture Notes in Computer Science, 2003, , 73-86.	1.3	2
50	Dynamic Adaptation of the Security Properties of Applications and Components. Lecture Notes in Computer Science, 1998, , 282-282.	1.3	2
51	IoT Attacks: Features Identification and Clustering. , 2020, , .		2
52	Automated Behavior-based Malice Scoring of Ransomware Using Genetic Programming. , 2021, , .		2
53	A Novel Scoring Model to Detect Potential Malicious Web Pages. , 2012, , .		1
54	WCMT: Web censorship monitoring tool. , 2013, , .		1

#	Article	IF	Citations
55	Towards SDN Network Proofs â€" Taming a Complex System. , 2016, , .		1
56	Impact of centralized photovoltaic systems on utility power factor profile using the wavelet variability model. , 2017, , .		1
57	A framework for flexible interdomain routing in transit ISPs. , 2017, , .		1
58	Enhanced Event Reliability in Wireless Sensor Networks. , 2018, , .		1
59	Trust and Privacy in Grid Resource Auctions. , 2009, , 85-96.		1
60	A Protocol for Anonymously Establishing Digital Provenance in Reseller Chains (Short Paper). Lecture Notes in Computer Science, 2012, , 85-92.	1.3	1
61	Special track on Programming for Separation of Concerns. , 2008, , .		0
62	Automating Malware Scanning Using Workflows. , 2009, , .		0
63	Event log messages as a human interface, or, "do you pine for the days when men were men and wrote their own device drivers?". , 2010, , .		0
64	A Practical Approach to System Preservation Workflows. PIK - Praxis Der Informationsverarbeitung Und Kommunikation, 2012, 35, .	0.2	0
65	Security analysis of a protocol for pollution attack detection. , 2013, , .		0
66	Detecting heap-spray attacks in drive-by downloads: Giving attackers a hand. , 2013, , .		0
67	Restrictions Affecting New Zealanders' Access to the Internet: A Local Study. , 2014, , .		0
68	Preventing Data Exfiltration: Corporate Patterns and Practices. , 2016, , 79-87.		0
69	An Investigation of Hadoop Parameters in SDN-enabled Clusters. , 2018, , .		0
70	Multilateration-based Event Identification in a Wireless Sensor Network. , 2018, , .		0
71	Panel: The Next 700 Distributed Object Systems. Lecture Notes in Computer Science, 2002, , 208-212.	1.3	0
72	Remotely shooting asteroids on our mobile phone. , 2009, , .		0

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73	A Reflective Java Class Loader. Lecture Notes in Computer Science, 1998, , 374-375.	1.3	0
74	Identifying and Analyzing Web Server Attacks. International Federation for Information Processing, 2008, , 151-161.	0.4	0