David J Hutchison

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Resilience and survivability in communication networks: Strategies, principles, and survey of disciplines. Computer Networks, 2010, 54, 1245-1265.	5.1	557
2	A quality of service architecture. Computer Communication Review, 1994, 24, 6-27.	1.8	289
3	A survey of cyber security management in industrial control systems. International Journal of Critical Infrastructure Protection, 2015, 9, 52-80.	4.6	222
4	The Extended Cloud: Review and Analysis of Mobile Edge Computing and Fog From a Security and Resilience Perspective. IEEE Journal on Selected Areas in Communications, 2017, 35, 2586-2595.	14.0	208
5	Scalable Bloom Filters. Information Processing Letters, 2007, 101, 255-261.	0.6	158
6	Game Theory for Multi-Access Edge Computing: Survey, Use Cases, and Future Trends. IEEE Communications Surveys and Tutorials, 2019, 21, 260-288.	39.4	142
7	Network resilience: a systematic approach. IEEE Communications Magazine, 2011, 49, 88-97.	6.1	131
8	Malware Detection in Cloud Computing Infrastructures. IEEE Transactions on Dependable and Secure Computing, 2016, 13, 192-205.	5.4	120
9	A survey of strategies for communication networks to protect against large-scale natural disasters. , 2016, , .		90
10	Review and analysis of networking challenges in cloud computing. Journal of Network and Computer Applications, 2016, 60, 113-129.	9.1	73
11	Network service orchestration standardization: A technology survey. Computer Standards and Interfaces, 2017, 54, 203-215.	5.4	70
12	Redundancy, diversity, and connectivity to achieve multilevel network resilience, survivability, and disruption tolerance invited paper. Telecommunication Systems, 2014, 56, 17-31.	2.5	56
13	A Scalable User Fairness Model for Adaptive Video Streaming Over SDN-Assisted Future Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 2168-2184.	14.0	47
14	Disaster-resilient communication networks: Principles and best practices. , 2016, , .		42
15	Evaluation of Anomaly Detection techniques for SCADA communication resilience. , 2016, , .		36
16	Architecture and design for resilient networked systems. Computer Communications, 2018, 131, 13-21.	5.1	36
17	Fog computing systems: State of the art, research issues and future trends, with a focus on resilience. Journal of Network and Computer Applications, 2020, 169, 102784.	9.1	35
18	An Inter-Domain Collaboration Scheme to Remedy DDoS Attacks in Computer Networks. IEEE Transactions on Network and Service Management, 2018, 15, 879-893.	4.9	30

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19	Assessing the impact of intra-cloud live migration on anomaly detection. , 2014, , .		26
20	Self-Organization and Resilience for Networked Systems: Design Principles and Open Research Issues. Proceedings of the IEEE, 2019, 107, 819-834.	21.3	26
21	Hybrid self-organizing feature map (SOM) for anomaly detection in cloud infrastructures using granular clustering based upon value-difference metrics. Information Sciences, 2019, 494, 247-277.	6.9	18
22	The Great Plains Environment for Network Innovation (GpENI): A Programmable Testbed for Future Internet Architecture Research. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2011, , 428-441.	0.3	17
23	Technology-related disasters: A survey towards disaster-resilient Software Defined Networks. , 2016, ,		17
24	QoS filters: Addressing the heterogeneity gap. Lecture Notes in Computer Science, 1996, , 227-243.	1.3	17
25	An adaptive approach to network resilience: Evolving challenge detection and mitigation. , 2011, , .		16
26	NETKIT. Computer Communication Review, 2003, 33, 55-66.	1.8	15
27	Towards Pseudonymous e-Commerce. Electronic Commerce Research, 2004, 4, 83-111.	5.0	15
28	Management patterns: SDN-enabled network resilience management. , 2014, , .		15
29	An Analysis of Cyber Security Attack Taxonomies. , 2018, , .		15
30	Transporting QoS adaptive flows. Multimedia Systems, 1998, 6, 167-178.	4.7	14
31	Fundamentals of Communication Networks Resilience to Disasters and Massive Disruptions. Computer Communications and Networks, 2020, , 1-43.	0.8	14
32	"Talking a different Language― Anticipating adversary attack cost for cyber risk assessment. Computers and Security, 2021, 103, 102163.	6.0	11
33	A framework for resilience management in the cloud. Elektrotechnik Und Informationstechnik, 2015, 132, 122-132.	1.1	10
34	Modeling cooperative behavior for resilience in cyber-physical systems using SDN and NFV. SN Applied Sciences, 2020, 2, 1.	2.9	9
35	A Cyber Incident Response and Recovery Framework to Support Operators of Industrial Control Systems. International Journal of Critical Infrastructure Protection, 2022, 37, 100505.	4.6	8
36	Strategies for Network Resilience: Capitalising on Policies. Lecture Notes in Computer Science, 2010, , 118-122.	1.3	7

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37	A multi-level approach to resilience of critical infrastructures and services. , 2016, , .		6
38	Dynamic deployment and reconfiguration of ad-hoc routing protocols. Journal of Internet Services and Applications, 2010, 1, 135-152.	2.1	5
39	Threat awareness for critical infrastructures resilience. , 2016, , .		5
40	"How Long is a Piece of String":. , 2017, , .		5
41	Internet Evolution: Critical Issues. IEEE Internet Computing, 2020, 24, 5-14.	3.3	5
42	Resilience Enhancement at Edge Cloud Systems. IEEE Access, 2022, 10, 45190-45206.	4.2	5
43	High-speed, in-band performance measurement instrumentation for next generation IP networks. Computer Networks, 2010, 54, 3246-3263.	5.1	4
44	Low-Overhead End-to-End Performance Measurement for Next Generation Networks. IEEE Transactions on Network and Service Management, 2011, 8, 1-14.	4.9	4
45	Surveillance and security: protecting electricity utilities and other critical infrastructures. Energy Informatics, 2018, 1, .	2.3	4
46	The UK Programmable Fixed and Mobile Internet Infrastructure: Overview, Capabilities and Use Cases Deployment. IEEE Access, 2020, 8, 175398-175411.	4.2	4
47	Situational Awareness for Improving Network Resilience Management. Lecture Notes in Computer Science, 2013, , 31-43.	1.3	4
48	Scalability improvement of the real time control protocol. Computer Communications, 2005, 28, 136-149.	5.1	3
49	Towards Real-Time Assessment of Industrial Control Systems (ICSs): A Framework for Future Research. , 0, , .		3
50	Human and Organizational Issues for Resilient Communications. Computer Communications and Networks, 2020, , 791-807.	0.8	3
51	QoS Filtering and Resource Reservation in an Internet Environment. Multimedia Tools and Applications, 2001, 13, 285-306.	3.9	2
52	A Situation Aware Information Infrastructure (\$\$SAI^2\$\$ S A I 2) Framework. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 186-194.	0.3	2
53	A flexible ICT architecture to support ancillary services in future electricity distribution networks: an accounting use case for DSOs. Energy Informatics, 2020, 3, .	2.3	2
54	A performance study of RSVP with proposed extensions. Computer Communications, 2002, 25, 1782-1798.	5.1	1

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55	Towards an autonomous resilience strategy the implementation of a self evolving rate limiter. , 2013, ,		0
56	Towards policy refinement for resilience management in cloud. , 2016, , .		0
57	Attack Pattern Recognition Through Correlating Cyber Situational Awareness in Computer Networks. , 2014, , 125-134.		0
58	Management Patterns for Network Resilience: Design and Verification of Policy Configurations. , 2014, , 85-95.		0
59	A Multi-commodity Network Flow Model for Cloud Service Environments. Communications in Computer and Information Science, 2016, , 186-197.	0.5	0
60	Resilient NFV Technology and Solutions. Computer Communications and Networks, 2020, , 675-697.	0.8	0
61	Improving network resilience with Middlebox Minions. , 2022, , .		0