Jin-Hee Cho

List of Publications by Year
in descending order

58 papers	1,789 citations	361413 20 h-index	289244 40 g-index
63 all docs	63 docs citations	63 times ranked	1347 citing authors

#	Article	IF	Citations
1	Hierarchical Trust Management for Wireless Sensor Networks and its Applications to Trust-Based Routing and Intrusion Detection. IEEE Transactions on Network and Service Management, 2012, 9, 169-183.	4.9	359
2	A Survey on Systems Security Metrics. ACM Computing Surveys, 2017, 49, 1-35.	23.0	171
3	Toward Proactive, Adaptive Defense: A Survey on Moving Target Defense. IEEE Communications Surveys and Tutorials, 2020, 22, 709-745.	39.4	150
4	Modeling and analysis of trust management with trust chain optimization in mobile ad hoc networks. Journal of Network and Computer Applications, 2012, 35, 1001-1012.	9.1	105
5	A Survey on Modeling and Optimizing Multi-Objective Systems. IEEE Communications Surveys and Tutorials, 2017, 19, 1867-1901.	39.4	104
6	BRIoT: Behavior Rule Specification-Based Misbehavior Detection for IoT-Embedded Cyber-Physical Systems. IEEE Access, 2019, 7, 118556-118580.	4.2	56
7	STRAM. ACM Computing Surveys, 2019, 51, 1-47.	23.0	55
8	Effect of Intrusion Detection on Reliability of Mission-Oriented Mobile Group Systems in Mobile Ad Hoc Networks. IEEE Transactions on Reliability, 2010, 59, 231-241.	4.6	52
9	Trust management in mobile ad hoc networks for bias minimization and application performance maximization. Ad Hoc Networks, 2014, 19, 59-74.	5.5	50
10	FRVM: Flexible Random Virtual IP Multiplexing in Software-Defined Networks. , 2018, , .		42
11	A Survey on Centrality Metrics and Their Network Resilience Analysis. IEEE Access, 2021, 9, 104773-104819.	4.2	42
12	A Survey of Defensive Deception: Approaches Using Game Theory and Machine Learning. IEEE Communications Surveys and Tutorials, 2021, 23, 2460-2493.	39.4	40
13	Attack Graph-Based Moving Target Defense in Software-Defined Networks. IEEE Transactions on Network and Service Management, 2020, 17, 1653-1668.	4.9	38
14	Metrics Towards Measuring Cyber Agility. IEEE Transactions on Information Forensics and Security, 2019, 14, 3217-3232.	6.9	29
15	Metrics and measurement of trustworthy systems. , 2016, , .		23
16	Statistical Estimation of Malware Detection Metrics in the Absence of Ground Truth. IEEE Transactions on Information Forensics and Security, 2018, 13, 2965-2980.	6.9	23
17	Lightweight Misbehavior Detection Management of Embedded IoT Devices in Medical Cyber Physical Systems. IEEE Transactions on Network and Service Management, 2020, 17, 2496-2510.	4.9	23
18	Trust Management of Smart Service Communities. IEEE Access, 2019, 7, 26362-26378.	4.2	22

#	ARTICLE	IF	CITATIONS
19	Performance optimization of region-based group key management in mobile ad hoc networks. Performance Evaluation, 2008, 65, 319-344.	1.2	21
20	SAFE: Secure Appliance Scheduling for Flexible and Efficient Energy Consumption for Smart Home IoT. IEEE Internet of Things Journal, 2018, 5, 4380-4391.	8.7	21
21	Dynamics of Uncertain and Conflicting Opinions in Social Networks. IEEE Transactions on Computational Social Systems, 2018, 5, 518-531.	4.4	21
22	On the tradeoff between altruism and selfishness in MANET trust management. Ad Hoc Networks, 2013, 11, 2217-2234.	5.5	20
23	Effect of personality traits on trust and risk to phishing vulnerability: Modeling and analysis. , 2016, , .		20
24	Uncertainty Characteristics of Subjective Opinions. , 2018, , .		20
25	Trust-Based Task Assignment With Multiobjective Optimization in Service-Oriented Ad Hoc Networks. IEEE Transactions on Network and Service Management, 2017, 14, 217-232.	4.9	19
26	Uncertainty-based False Information Propagation in Social Networks. ACM Transactions on Social Computing, 2019, 2, 1-34.	2.5	19
27	Foureye: Defensive Deception Against Advanced Persistent Threats via Hypergame Theory. IEEE Transactions on Network and Service Management, 2022, 19, 112-129.	4.9	16
28	Performance analysis of hierarchical group key management integrated with adaptive intrusion detection in mobile ad hoc networks. Performance Evaluation, 2011, 68, 58-75.	1.2	15
29	Cyber defense in breadth: Modeling and analysis of integrated defense systems. Journal of Defense Modeling and Simulation, 2018, 15, 147-160.	1.7	15
30	On optimal batch rekeying for secure group communications in wireless networks. Wireless Networks, 2008, 14, 915-927.	3.0	14
31	On IoT Misbehavior Detection in Cyber Physical Systems. , 2018, , .		14
32	Quantifying the security effectiveness of network diversity. , 2018, , .		14
33	Integrated Social and QoS Trust-Based Routing in Delay Tolerant Networks. Wireless Personal Communications, 2012, 66, 443-459.	2.7	13
34	Proactive Defense for Internet-of-things: Moving Target Defense With Cyberdeception. ACM Transactions on Internet Technology, 2022, 22, 1-31.	4.4	12
35	Online Social Deception and Its Countermeasures: A Survey. IEEE Access, 2021, 9, 1770-1806.	4.2	11
36	Tradeoffs Between Trust and Survivability for Mission Effectiveness in Tactical Networks. IEEE Transactions on Cybernetics, 2015, 45, 754-766.	9.5	10

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37	Effect of Disinformation Propagation on Opinion Dynamics: A Game Theoretic Approach. IEEE Transactions on Network Science and Engineering, 2022, 9, 3775-3790.	6.4	9
38	Modeling and Analysis of Deception Games Based on Hypergame Theory. , 2019, , 49-74.		8
39	Dynamic Security Metrics for Software-Defined Network-based Moving Target Defense. Journal of Network and Computer Applications, 2020, 170, 102805.	9.1	8
40	Measuring Relative Accuracy of Malware Detectors in the Absence of Ground Truth. , 2018, , .		7
41	Cyber War Game in Temporal Networks. PLoS ONE, 2016, 11, e0148674.	2.5	7
42	Applying Percolation Theory. , 2019, , 107-133.		7
43	DESOLATER: Deep Reinforcement Learning-Based Resource Allocation and Moving Target Defense Deployment Framework. IEEE Access, 2021, 9, 70700-70714.	4.2	6
44	Expert Opinion Fusion Framework Using Subjective Logic for Fault Diagnosis. IEEE Transactions on Cybernetics, 2022, 52, 4300-4311.	9.5	6
45	Trust-Based Task Assignment in Autonomous Service-Oriented Ad Hoc Networks. , 2015, , .		5
46	On design tradeoffs between security and performance in wireless group communicating systems. , 0, , .		4
47	Software Defined Network Based Virtual Machine Placement in Cloud Systems. , 2017, , .		4
48	COSTA: Composite Trust-Based Asset-Task Assignment in Mobile Ad Hoc Networks. IEEE Access, 2019, 7, 92296-92313.	4.2	4
49	Optimizing the Lifetime of IoT-Based Star and Mesh Networks. IEEE Access, 2020, 8, 63090-63105.	4.2	4
50	Model-Based Evaluation of Distributed Intrusion Detection Protocols for Mobile Group Communication Systems. Wireless Personal Communications, 2011, 60, 725-750.	2.7	3
51	Network Adaptations Under Cascading Failures for Mission-Oriented Networks. IEEE Transactions on Network and Service Management, 2019, 16, 1184-1198.	4.9	3
52	Moving target defense for in-vehicle software-defined networking: IP shuffling in network slicing with multiagent deep reinforcement learning. , 2020, , .		3
53	Game Theoretic Opinion Models and Their Application in Processing Disinformation. , 2021, , .		3
54	Vulnerability-Aware Resilient Networks: Software Diversity-Based Network Adaptation. IEEE Transactions on Network and Service Management, 2021, 18, 3154-3169.	4.9	2

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55	Optimization of Batch Rekey Interval for Secure Group Communications in Wireless Networks. , 0, , .		1
56	Network Resilience Under Epidemic Attacks: Deep Reinforcement Learning Network Topology Adaptations. , 2021, , .		1
57	Uncertainty-Based Opinion Inference on Network Data Using Graph Convolutional Neural Networks. , 2018, , .		0
58	Diversity-By-Design for Dependable and Secure Cyber-Physical Systems: A Survey. IEEE Transactions on Network and Service Management, 2021, , 1-1.	4.9	0