

Taeshik Shon

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

1,419
citations

430442

18
h-index

360668

35
g-index

96
all docs

96
docs citations

96
times ranked

1325
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid machine learning approach to network anomaly detection. <i>Information Sciences</i> , 2007, 177, 3799-3821.	4.0	308
2	Correcting design flaws: An improved and cloud assisted key agreement scheme in cyber physical systems. <i>Computer Communications</i> , 2020, 153, 527-537.	3.1	66
3	Challenges and research directions for heterogeneous cyber-physical system based on IEC 61850: Vulnerabilities, security requirements, and security architecture. <i>Future Generation Computer Systems</i> , 2016, 61, 128-136.	4.9	63
4	APAD: Autoencoder-based Payload Anomaly Detection for industrial IoT. <i>Applied Soft Computing Journal</i> , 2020, 88, 106017.	4.1	50
5	An improved anonymous authentication scheme for distributed mobile cloud computing services. <i>Cluster Computing</i> , 2019, 22, 1595-1609.	3.5	49
6	IEEE 1815.1-Based Power System Security With Bidirectional RNN-Based Network Anomalous Attack Detection for Cyber-Physical System. <i>IEEE Access</i> , 2020, 8, 77572-77586.	2.6	46
7	Novel Approach for Detecting Network Anomalies for Substation Automation based on IEC 61850. <i>Multimedia Tools and Applications</i> , 2015, 74, 303-318.	2.6	44
8	Toward Advanced Mobile Cloud Computing for the Internet of Things: Current Issues and Future Direction. <i>Mobile Networks and Applications</i> , 2014, 19, 404-413.	2.2	39
9	An improved and robust biometrics-based three factor authentication scheme for multiserver environments. <i>Journal of Supercomputing</i> , 2018, 74, 3504-3520.	2.4	39
10	A Multiserver Biometric Authentication Scheme for TMIS using Elliptic Curve Cryptography. <i>Journal of Medical Systems</i> , 2016, 40, 230.	2.2	35
11	Digital Forensic Practices and Methodologies for AI Speaker Ecosystems. <i>Digital Investigation</i> , 2019, 29, S80-S93.	3.2	34
12	Packet Preprocessing in CNN-Based Network Intrusion Detection System. <i>Electronics (Switzerland)</i> , 2020, 9, 1151.	1.8	33
13	Design and implementation of cybersecurity testbed for industrial IoT systems. <i>Journal of Supercomputing</i> , 2018, 74, 4506-4520.	2.4	32
14	Asynchronous inter-network interference avoidance for wireless body area networks. <i>Journal of Supercomputing</i> , 2013, 65, 562-579.	2.4	30
15	A novel secure key paring protocol for RF4CE ubiquitous smart home systems. <i>Personal and Ubiquitous Computing</i> , 2013, 17, 945-949.	1.9	30
16	A Robust and Efficient Privacy Aware Handover Authentication Scheme for Wireless Networks. <i>Wireless Personal Communications</i> , 2017, 93, 311-335.	1.8	26
17	Game theory-based Security Vulnerability Quantification for Social Internet of Things. <i>Future Generation Computer Systems</i> , 2018, 82, 752-760.	4.9	25
18	A privacy preserving authentication scheme for roaming in ubiquitous networks. <i>Cluster Computing</i> , 2017, 20, 1223-1236.	3.5	20

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19	Neighbor stability-based VANET clustering for urban vehicular environments. Journal of Supercomputing, 2016, 72, 161-176.	2.4	19
20	Study on Analysis of Security Vulnerabilities and Countermeasures in ISO/IEC 15118 Based Electric Vehicle Charging Technology. , 2014, , .		16
21	User privacy-enhanced security architecture for home area network of Smartgrid. Multimedia Tools and Applications, 2016, 75, 12749-12764.	2.6	16
22	Network protocol fuzz testing for information systems and applications: a survey and taxonomy. Multimedia Tools and Applications, 2016, 75, 14745-14757.	2.6	16
23	Velocity Obstacle Based 3D Collision Avoidance Scheme for Low-Cost Micro UAVs. Sustainability, 2017, 9, 1174.	1.6	16
24	Adversarial attack-based security vulnerability verification using deep learning library for multimedia video surveillance. Multimedia Tools and Applications, 2020, 79, 16077-16091.	2.6	16
25	Improved deleted file recovery technique for Ext2/3 filesystem. Journal of Supercomputing, 2014, 70, 20-30.	2.4	15
26	Certificate Injection-Based Encrypted Traffic Forensics in AI Speaker Ecosystem. Forensic Science International: Digital Investigation, 2020, 33, 301010.	1.2	14
27	AI-enabled device digital forensics for smart cities. Journal of Supercomputing, 2022, 78, 3029-3044.	2.4	13
28	An efficient and scalable re-authentication protocol over wireless sensor network. IEEE Transactions on Consumer Electronics, 2011, 57, 516-522.	3.0	12
29	A Novel Approach to Analyzing for Detecting Malicious Network Activity Using a Cloud Computing Testbed. Mobile Networks and Applications, 2013, 18, 122-128.	2.2	12
30	Merkle tree-based wormhole attack avoidance mechanism in low power and lossy network based networks. Security and Communication Networks, 2014, 7, 1292-1309.	1.0	12
31	A novel vulnerability analysis approach to generate fuzzing test case in industrial control systems. , 2016, , .		12
32	Toward Security Enhanced Provisioning in Industrial IoT Systems. Sensors, 2018, 18, 4372.	2.1	12
33	ExtSFR: scalable file recovery framework based on an Ext file system. Multimedia Tools and Applications, 2020, 79, 16093-16111.	2.6	12
34	Design and implementation of a wireless sensor network architecture using smart mobile devices. Telecommunication Systems, 2013, 52, 2311-2320.	1.6	11
35	Field classification-based novel fuzzing case generation for ICS protocols. Journal of Supercomputing, 2018, 74, 4434-4450.	2.4	10
36	In-Vehicle Networking/Autonomous Vehicle Security for Internet of Things/Vehicles. Electronics (Switzerland), 2021, 10, 637.	1.8	10

#	ARTICLE	IF	CITATIONS
37	Industrial network-based behavioral anomaly detection in AI-enabled smart manufacturing. <i>Journal of Supercomputing</i> , 2022, 78, 13554-13563.	2.4	10
38	Information delivery scheme of micro UAVs having limited communication range during tracking the moving target. <i>Journal of Supercomputing</i> , 2013, 66, 950-972.	2.4	9
39	Security Architecture Model for Smart Grid Communication Systems. , 2013, , .		9
40	Secure and reliable electronic record management system using digital forensic technologies. <i>Journal of Supercomputing</i> , 2014, 70, 149-165.	2.4	8
41	A study on memory dump analysis based on digital forensic tools. <i>Peer-to-Peer Networking and Applications</i> , 2015, 8, 694-703.	2.6	8
42	Two Tier Search Scheme Using Micro UAV Swarm. <i>Wireless Personal Communications</i> , 2017, 93, 349-363.	1.8	8
43	RNN-based Anomaly Detection in DNP3 Transport Layer. , 2019, , .		8
44	Visualization for internet of things: power system and financial network cases. <i>Multimedia Tools and Applications</i> , 2019, 78, 3241-3265.	2.6	8
45	A scalable and privacy-preserving child-care and safety service in a ubiquitous computing environment. <i>Mathematical and Computer Modelling</i> , 2012, 55, 45-57.	2.0	7
46	Dynamic learning model update of hybrid-classifiers for intrusion detection. <i>Journal of Supercomputing</i> , 2013, 64, 522-526.	2.4	7
47	Towards a novel quantification approach based on smart grid network vulnerability score. <i>International Journal of Energy Research</i> , 2016, 40, 298-312.	2.2	7
48	Unknown Payload Anomaly Detection Based on Format and Field Semantics Inference in Cyber-Physical Infrastructure Systems. <i>IEEE Access</i> , 2021, 9, 75542-75552.	2.6	7
49	An effective authentication mechanism for ubiquitous collaboration in heterogeneous computing environment. <i>Peer-to-Peer Networking and Applications</i> , 2014, 7, 612-619.	2.6	6
50	Automatic whitelist generation system for ethernet based in-vehicle network. <i>Computers in Industry</i> , 2022, 142, 103735.	5.7	6
51	Multi-hop-based opportunistic concurrent directional transmission in 60 GHz WPANs. <i>Multimedia Tools and Applications</i> , 2015, 74, 1627-1644.	2.6	5
52	Design and Implementation of Fuzzing Framework Based on IoT Applications. <i>Wireless Personal Communications</i> , 2017, 93, 365-382.	1.8	5
53	Digital Forensic Readiness for Financial Network. , 2019, , .		5
54	An Obstacle Avoidance Scheme Maintaining Connectivity for Micro-Unmanned Aerial Vehicles. <i>International Journal of Distributed Sensor Networks</i> , 2014, 10, 920534.	1.3	5

#	ARTICLE	IF	CITATIONS
55	MitM Tool Analysis for TLS Forensics. , 2021, , .		5
56	Monitoring Agent for Detecting Malicious Packet Drops for Wireless Sensor Networks in the Microgrid and Grid-Enabled Vehicles. International Journal of Advanced Robotic Systems, 2012, 9, 31.	1.3	4
57	A Novel Network Modeling and Evaluation Approach for Security Vulnerability Quantification in Substation Automation Systems. IEICE Transactions on Information and Systems, 2013, E96.D, 2021-2025.	0.4	4
58	Data Aggregation Gateway Framework for CoAP Group Communications. Symmetry, 2016, 8, 138.	1.1	4
59	Data investigation based on XFS file system metadata. Multimedia Tools and Applications, 2016, 75, 14721-14743.	2.6	4
60	Smart seed selection-based effective black box fuzzing for IIoT protocol. Journal of Supercomputing, 2020, 76, 10140-10154.	2.4	4
61	Ext4 and XFS File System Forensic Framework Based on TSK. Electronics (Switzerland), 2021, 10, 2310.	1.8	4
62	Digital Forensic Analysis to Improve User Privacy on Android. Sensors, 2022, 22, 3971.	2.1	4
63	An Adaptive Allocation Algorithm Using Directional CSMA/CA over mmWave Wireless Personal Area Networks. International Journal of Advanced Robotic Systems, 2012, 9, 17.	1.3	3
64	Software Authority Transition through Multiple Distributors. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	3
65	Logical Architecture of HAN-Centric Smartgrid Model. , 2015, , .		3
66	An interactive pervasive whiteboard based on MVC architecture for ubiquitous collaboration. Multimedia Tools and Applications, 2015, 74, 1557-1576.	2.6	3
67	Digital forensic approach for file recovery in Unix systems: Research of data recovery on Unix file system. , 2016, , .		3
68	Digital forensic science approach by file recovery research. Journal of Supercomputing, 2018, 74, 3704-3725.	2.4	3
69	Packet Diversity-Based Anomaly Detection System with OCSVM and Representative Model. , 2016, , .		3
70	Enhancing Credibility of Location Based Service Using Multiple Sensing Technologies. IEICE Transactions on Information and Systems, 2011, E94-D, 1181-1184.	0.4	2
71	Physical Memory Collection and Analysis in Smart Grid Embedded System. Mobile Networks and Applications, 2014, 19, 382-391.	2.2	2
72	Authentication of mobile applications through various local distributors. Multimedia Tools and Applications, 2015, 74, 1541-1555.	2.6	2

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73	Digital forensic consideration for financial IT security. , 2016, , .		2
74	Recovery Measure against Disabling Reassembly Attack to DNP3 Communication. IEICE Transactions on Information and Systems, 2017, E100-D, 1790-1797.	0.4	2
75	Digital Forensic Analysis using Android Application Cache Data. , 2019, , .		2
76	Providing security vertical handoff in SARAH for heterogeneous networks. Journal of Network and Computer Applications, 2011, 34, 1903-1907.	5.8	1
77	An Efficient and Secure Service Discovery Protocol for Ubiquitous Computing Environments. IEICE Transactions on Information and Systems, 2012, E95-D, 117-125.	0.4	1
78	Adaptive anomaly control for alleviating the exclusive channel occupation in wireless networks. International Journal of Communication Systems, 2013, 26, 720-731.	1.6	1
79	AVQS: Attack Route-Based Vulnerability Quantification Scheme for Smart Grid. Scientific World Journal, The, 2014, 2014, 1-6.	0.8	1
80	Scenario-Based Attack Route on Industrial Control System. , 2014, , .		1
81	Survey on security techniques for AMI metering system. , 2014, , .		1
82	A Phase of Deleted File Recovery for Digital Forensics Research in Tizen. , 2015, , .		1
83	Case Studies for Analyzing DLMS/COSEM-Based Smart Meter Vulnerabilities in Korea. , 2016, , .		1
84	Exploring an area by groups of UAVs in the presence of a refueling base. Journal of Supercomputing, 2016, 72, 3409-3427.	2.4	1
85	A novel security architecture of electronic vehicle system for smart grid communication. Journal of Supercomputing, 2016, 72, 214-231.	2.4	1
86	Backtracking and Visualization Techniques for Financial Network Security. , 2018, , .		1
87	Location-Aware and Privacy-Preserving Approach for Child Safety in Ubiquitous Computing Environment. IEICE Transactions on Communications, 2011, E94-B, 686-689.	0.4	1
88	Editorial: Special Issue on "Advanced Technologies and Practices in Recent Wireless Sensor Networks" Wireless Personal Communications, 2011, 60, 385-388.	1.8	0
89	Editorial of special section on advanced in high performance, algorithm, and framework for future computing. Journal of Supercomputing, 2013, 65, 483-483.	2.4	0
90	Editorial for Special Issue on "New Technologies and Applications for Wireless Communications & Mobile Cloud Computing" Mobile Networks and Applications, 2013, 18, 98-102.	2.2	0

#	ARTICLE	IF	CITATIONS
91	Applying Digital Forensics in Various Application Fields: Required Elements for Having Legal Force. , 2014, , .		0
92	Reliability Enhanced Communication Guidance for Electric Utilities Based on Regulatory Standard. , 2015, , .		0
93	An Security Analysis of Ext Filesystem metadata. , 2019, , .		0
94	Design and Implementation of One-Way Key Agreement Model for Enhancing VoIP Internet Phone Security. IEICE Transactions on Communications, 2011, E94-B, 2235-2238.	0.4	0
95	Security Analysis of Smart Watch and Band Devices. , 2021, , .		0
96	Data Deletion and Recovery of Androd Plaforms. , 2021, , .		0