

Sachin Shetty

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

170
papers

2,169
citations

21
h-index

41
g-index

221
ext. papers

3,061
ext. citations

2.3
avg, IF

5.67
L-index

#	Paper	IF	Citations
170	Guest Editorial Special Issue on Secure Data Analytics for Emerging Internet of Things. <i>IEEE Internet of Things Journal</i> , 2022 , 9, 2463-2467	10.7	
169	Design and Testbed Experiments of User Authentication and Key Establishment Mechanism for Smart Healthcare Cyber Physical Systems. <i>IEEE Transactions on Network Science and Engineering</i> , 2022 , 1-1	4.9	1
168	ASCP-IoMT: AI-Enabled Lightweight Secure Communication Protocol for Internet of Medical Things. <i>IEEE Access</i> , 2022 , 1-1	3.5	0
167	Rahasakāscalable blockchain architecture for enterprise applications. <i>Journal of Systems Architecture</i> , 2021 , 116, 102061	5.5	8
166	Tikiriāowards a lightweight blockchain for IoT. <i>Future Generation Computer Systems</i> , 2021 , 119, 154-165	7.5	7
165	Realizing Cyber-Physical Systems Resilience Frameworks and Security Practices. <i>Studies in Systems, Decision and Control</i> , 2021 , 1-37	0.8	2
164	Simulation for cybersecurity: state of the art and future directions. <i>Translational Research in Oral Oncology</i> , 2021 , 7,	3.8	6
163	Connect - Blockchain and Self-Sovereign Identity Empowered Contact Tracing Platform. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2021 , 208-223	0.2	1
162	6G Enabled Smart Infrastructure for Sustainable Society: Opportunities, Challenges, and Research Roadmap. <i>Sensors</i> , 2021 , 21,	3.8	42
161	A Blockchain and Self-Sovereign Identity Empowered Digital Identity Platform 2021 ,		2
160	A blockchain empowered and privacy preserving digital contact tracing platform. <i>Information Processing and Management</i> , 2021 , 58, 102572	6.3	5
159	Security in 5G-Enabled Internet of Things Communication: Issues, Challenges, and Future Research Roadmap. <i>IEEE Access</i> , 2021 , 9, 4466-4489	3.5	11
158	Hidden Markov Model and Cyber Deception for the Prevention of Adversarial Lateral Movement. <i>IEEE Access</i> , 2021 , 9, 49662-49682	3.5	4
157	A Tutorial and Future Research for Building a Blockchain-Based Secure Communication Scheme for Internet of Intelligent Things. <i>IEEE Access</i> , 2020 , 8, 88700-88716	3.5	28
156	Analysis of the impact of cyber events for cyber insurance. <i>Geneva Papers on Risk and Insurance: Issues and Practice</i> , 2020 , 45, 564-579	1.2	4
155	Analysis of Stepping-Stone Attacks in Internet of Things Using Dynamic Vulnerability Graphs 2020 , 273-294		1
154	Dynamic Cyber Deception Using Partially Observable Monte-Carlo Planning Framework 2020 , 331-355		3

153	Software-Defined Networking for Cyber Resilience in Industrial Internet of Things (IIoT) 2020 , 453-477		
152	Summary and Future Work 2020 , 635-645		0
151	A Hypergame-Based Defense Strategy Toward Cyber Deception in Internet of Battlefield Things (IoBT) 2020 , 59-77		3
150	Exploring the Attack Surface of Blockchain: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2020 , 22, 1977-2008	37.1	72
149	Modeling Mission Impact of Cyber Attacks on Energy Delivery Systems. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020 , 41-61	0.2	0
148	Lekana - Blockchain Based Archive Storage for Large-Scale Cloud Systems. <i>Lecture Notes in Computer Science</i> , 2020 , 169-184	0.9	0
147	Cloud-Based Simulation Platform for Quantifying Cyber-Physical Systems Resilience. <i>Simulation Foundations, Methods and Applications</i> , 2020 , 349-384	0.6	2
146	Measuring Decentrality in Blockchain Based Systems. <i>IEEE Access</i> , 2020 , 8, 178372-178390	3.5	8
145	On the Design of Secure Communication Framework for Blockchain-Based Internet of Intelligent Battlefield Things Environment 2020 ,		4
144	Data Provenance in the Cloud: A Blockchain-Based Approach. <i>IEEE Consumer Electronics Magazine</i> , 2019 , 8, 38-44	3.2	22
143	Transfer learning for detecting unknown network attacks. <i>Eurasip Journal on Information Security</i> , 2019 , 2019,	3.8	33
142	Blockchain Evaluation Platform 2019 , 275-310		1
141	Overview of Attack Surfaces in Blockchain 2019 , 51-66		39
140	Blockcloud Security Analysis 2019 , 159-192		
139	AKM-IoV: Authenticated Key Management Protocol in Fog Computing-Based Internet of Vehicles Deployment. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 8804-8817	10.7	91
138	Agent-Based Behavior Precursor Model of Insider IT Sabotage. <i>Understanding Complex Systems</i> , 2019 , 65-77	0.4	1
137	Special Pedestrian and Head Pose Detection for Autonomous Vehicles. <i>Lecture Notes in Electrical Engineering</i> , 2019 , 175-186	0.2	1
136	Cyber Threat Analysis Based on Characterizing Adversarial Behavior for Energy Delivery System. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2019 , 146-160	0.2	1

135	Online Cyber Deception System Using Partially Observable Monte-Carlo Planning Framework. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2019 , 205-223	0.2	2
134	Radio frequency classification toolbox for drone detection 2019 ,		3
133	ICS-CRAT: A Cyber Resilience Assessment Tool for Industrial Control Systems 2019 ,		5
132	Modeling Cyber Resilience for Energy Delivery Systems Using Critical System Functionality 2019 ,		4
131	Artificial Intelligence Empowered Cyber Threat Detection and Protection for Power Utilities 2019 ,		3
130	Cyber-Physical System Resilience 2019 , 301-337		10
129	Air Gapped Wallet Schemes and Private Key Leakage in Permissioned Blockchain Platforms 2019 ,		5
128	2019 ,		5
127	IoMT Malware Detection Approaches: Analysis and Research Challenges. <i>IEEE Access</i> , 2019 , 7, 182459-182476	3.476	45
126	LDAKM-ElIoT: Lightweight Device Authentication and Key Management Mechanism for Edge-Based IoT Deployment. <i>Sensors</i> , 2019 , 19,	3.8	27
125	Blockchain-Based Decentralized Accountability and Self-Sovereignty in Healthcare Systems 2019 , 119-149		2
124	Security risk assessment for SDN-enabled smart grids. <i>Computer Communications</i> , 2019 , 133, 1-11	5.1	12
123	Reducing Informational Disadvantages to Improve Cyber Risk Management[] <i>Geneva Papers on Risk and Insurance: Issues and Practice</i> , 2018 , 43, 224-238	1.2	17
122	Diversity Modeling to Evaluate Security of Multiple SDN Controllers 2018 ,		3
121	Analysis of Stepping Stone Attacks in Dynamic Vulnerability Graphs 2018 ,		2
120	Towards Blockchain Empowered Trusted and Accountable Data Sharing and Collaboration in Mobile Healthcare Applications. <i>EAI Endorsed Transactions on Pervasive Health and Technology</i> , 2018 , 4, 159338	1.8	2
119	Securing SDN-Enabled Smart Power Grids. <i>Advances in Computer and Electrical Engineering Book Series</i> , 2018 , 79-98	0.3	1
118	Towards a Reliable and Accountable Cyber Supply Chain in Energy Delivery System Using Blockchain. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2018 , 43-62	0.2	6

117	Attack Surface Analysis of Permissioned Blockchain Platforms for Smart Cities 2018 ,		9
116	Cyber Resilience Framework for Industrial Control Systems: Concepts, Metrics, and Insights 2018 ,		12
115	Towards Secure and Smart Healthcare in Smart Cities Using Blockchain 2018 ,		20
114	Exploring the Attack Surfaces in Blockchain Enabled Smart Cities 2018 ,		14
113	A Quantitative Risk Analysis Model and Simulation Of Enterprise Networks 2018 ,		1
112	Head Pose Estimation using Transfer Learning 2018 ,		7
111	Blockchain-Empowered Secure Internet -of- Battlefield Things (IoBT) Architecture 2018 ,		11
110	TDDEHT: Threat Detection Using Distributed Ensembles of Hoeffding Trees on Streaming Cyber Datasets 2018 ,		3
109	Towards Modeling Attacker's Opportunity for Improving Cyber Resilience in Energy Delivery Systems 2018 ,		2
108	Feature Extraction and Classification of Heritage Image from Crowd Source 2018 ,		2
107	2018 ,		22
106	A Reliable Data Provenance and Privacy Preservation Architecture for Business-Driven Cyber-Physical Systems Using Blockchain. <i>International Journal of Information Security and Privacy</i> , 2018 , 12, 68-81	0.9	5
105	Modeling Cost of Countermeasures in Software Defined Networking-enabled Energy Delivery Systems 2018 ,		2
104	Towards a Trusted and Privacy Preserving Membership Service in Distributed Ledger Using Intel Software Guard Extensions. <i>Lecture Notes in Computer Science</i> , 2018 , 304-310	0.9	1
103	Towards Decentralized Accountability and Self-sovereignty in Healthcare Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 387-398	0.9	13
102	Data provenance assurance in the cloud using blockchain 2017 ,		2
101	Software Defined Networking enabled resilience for IEC 61850-based substation communication systems 2017 ,		12
100	Risk Management Using Cyber-Threat Information Sharing and Cyber-Insurance. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2017 , 154-164	0.2	9

99	Three Layer Game Theoretic Decision Framework for Cyber-Investment and Cyber-Insurance. <i>Lecture Notes in Computer Science, 2017, 519-532</i>	0.9	10
98	An SDN Based Framework for Guaranteeing Security and Performance in Information-Centric Cloud Networks 2017,		6
97	Man in the Cloud (MITC) Defender: SGX-Based User Credential Protection for Synchronization Applications in Cloud Computing Platform 2017,		8
96	A Security Framework for SDN-Enabled Smart Power Grids 2017,		11
95	A Markov Game Theoretic Approach for Power Grid Security 2017,		6
94	Cross layer attacks on GSM mobile networks using software defined radios 2017,		6
93	Secrecy Rates and Optimal Power Allocation for Full-Duplex Decode-and-Forward Relay Wire-Tap Channels. <i>IEEE Access, 2017, 5, 10469-10477</i>	3.5	4
92	Security Implications of Blockchain Cloud with Analysis of Block Withholding Attack 2017,		95
91	ProvChain: A Blockchain-Based Data Provenance Architecture in Cloud Environment with Enhanced Privacy and Availability 2017,		303
90	Generalized stochastic Petri Net model based security risk assessment of software defined networks 2017,		3
89	Consensus protocols for blockchain-based data provenance: Challenges and opportunities 2017,		40
88	Towards data assurance and resilience in IoT using blockchain 2017,		92
87	Strong Security Approach with Compromised Nodes Detection in Cognitive Radio Sensor Networks. <i>International Journal of Networking and Computing, 2017, 7, 50-68</i>	0.2	1
86	Integrating blockchain for data sharing and collaboration in mobile healthcare applications 2017,		231
85	Feature-based transfer learning for network security 2017,		10
84	Hoeffding Tree Algorithms for Anomaly Detection in Streaming Datasets: A Survey. <i>Journal of Information Security, 2017, 08, 339-361</i>	0.3	12
83	. <i>IEEE Systems Journal, 2016, 10, 1494-1504</i>	4.3	22
82	On Secrecy Rate and Optimal Power Allocation of the Full-Duplex Amplify-and-Forward Relay Wire-Tap Channel. <i>IEEE Transactions on Vehicular Technology, 2016, 1-1</i>	6.8	9

81	Cross-Layered Security Approach with Compromised Nodes Detection in Cooperative Sensor Networks 2016,		2
80	Secured formation control for multi-agent systems under DoS attacks 2016,		3
79	Generation of Labelled Datasets to Quantify the Impact of Security Threats to Cloud Data Centers. <i>Journal of Information Security</i> , 2016 , 07, 172-184	0.3	4
78	Colluding Jamming Attack on a Grand Coalition by Aggrieved Nodes. <i>Communications and Network</i> , 2016 , 08, 57-66	0.6	
77	A Reputation-Based Coalition Game to Prevent Smart Insider Jamming Attacks in MANETs. <i>Lecture Notes in Computer Science</i> , 2016 , 241-253	0.9	2
76	Game Theoretic Cloud-Assisted Opportunistic Spectrum Access in Cognitive Radio Networks. <i>International Journal of Grid and High Performance Computing</i> , 2016 , 8, 94-110	0.7	
75	Detecting and Mitigating Smart Insider Jamming Attacks in MANETs Using Reputation-Based Coalition Game. <i>Journal of Computer Networks and Communications</i> , 2016 , 2016, 1-13	2.5	1
74	SVM based machine learning approach to identify Parkinson's disease using gait analysis 2016,		28
73	Scalable Network Diversity Modeling For Assessing Threats in Cloud Networks. <i>Wireless Networks</i> , 2016 , 25-42	0.6	
72	2016,		2
71	Moving Target Defense in Distributed Systems. <i>Wireless Networks</i> , 2016 , 1-11	0.6	
70	Security-Aware Virtual Machine Placement in Cloud Data Center. <i>Wireless Networks</i> , 2016 , 13-24	0.6	4
69	Moving Target Defense for Distributed Systems. <i>Wireless Networks</i> , 2016,	0.6	4
68	Optimizing Network-Aware Resource Allocation in Cloud Data Centers. <i>Wireless Networks</i> , 2016 , 43-55	0.6	3
67	Towards a Network-Aware VM Migration: Evaluating the Cost of VM Migration in Cloud Data Centers. <i>Wireless Networks</i> , 2016 , 57-74	0.6	2
66	SCREDDENT: Scalable Real-time Anomalies Detection and Notification of Targeted Malware in Mobile Devices. <i>Procedia Computer Science</i> , 2016 , 83, 1219-1225	1.6	6
65	Survey Toward a Smart Campus Using the Internet of Things 2016,		19
64	Towards Network-Topology Aware Virtual Machine Placement in Cloud Datacenters 2016,		1

63	Model-based resilient control for a multi-agent system against Denial of Service attacks 2016,		10
62	An Overview of Cognitive Radio Networks. <i>Springer Briefs in Electrical and Computer Engineering,</i> 2015, 1-11	0.4	1
61	A Testbed Using USRP(TM) and LabView(R) for Dynamic Spectrum Access in Cognitive Radio Networks 2015,		10
60	Cloud-assisted GPS-driven dynamic spectrum access in cognitive radio vehicular networks for transportation cyber physical systems 2015,		13
59	Scalable detection of web malware on smartphones 2015,		2
58	Achievable rates and outage probability of cognitive radio with dynamic frequency hopping under imperfect spectrum sensing. <i>IET Communications,</i> 2015, 9, 2160-2167	1.3	6
57	Dynamic Spectrum Access for Wireless Networks. <i>Springer Briefs in Electrical and Computer Engineering,</i> 2015,	0.4	29
56	Resource Allocation for Cognitive Radio Enabled Vehicular Network Users. <i>Springer Briefs in Electrical and Computer Engineering,</i> 2015, 57-65	0.4	3
55	Enabling security-aware virtual machine placement in IaaS clouds 2015,		2
54	Physical layer security in wireless cooperative relay networks: state of the art and beyond 2015, 53, 32-39		116
53	2015,		2
52	Enhanced learning classifier to locate data in cloud data centres. <i>International Journal of Metaheuristics,</i> 2015, 4, 141	0.8	2
51	Accumulative feedback adaptation transmission rate in mobile ad-hoc networks 2015,		2
50	Design and Performance Evaluation of a Biometric Iris Verification System 2015, 26.458.1		
49	Resource Allocation in Spectrum Underlay Cognitive Radio Networks. <i>Springer Briefs in Electrical and Computer Engineering,</i> 2015, 13-24	0.4	
48	Resource Allocation in Spectrum Overlay Cognitive Radio Networks. <i>Springer Briefs in Electrical and Computer Engineering,</i> 2015, 25-42	0.4	
47	Cloud-Integrated Geolocation-Aware Dynamic Spectrum Access. <i>Springer Briefs in Electrical and Computer Engineering,</i> 2015, 43-56	0.4	
46	Enhancing connectivity for spectrum-agile Vehicular Ad hoc NETWORKS in fading channels 2014,		14

45	Game Theoretic Dynamic Spectrum Access in Cloud-Based Cognitive Radio Networks 2014 ,		6
44	Network Aware VM Migration in Cloud Data Centers 2014 ,		11
43	Treatment algorithms for managing hepatocellular carcinoma. <i>Journal of Clinical and Experimental Hepatology</i> , 2014 , 4, S80-9	4.1	48
42	Geolocation-aware resource management in cloud computing-based cognitive radio networks. <i>International Journal of Cloud Computing</i> , 2014 , 3, 267	1	16
41	Waiting probability analysis for opportunistic spectrum access. <i>International Journal of Adaptive and Innovative Systems</i> , 2014 , 2, 15	0.5	3
40	Vertical Integration of Biometrics Across the Curriculum: Case Study of Speaker, Face and Iris Recognition. <i>IEEE Circuits and Systems Magazine</i> , 2014 , 14, 55-69	3.2	0
39	2014 ,		4
38	Towards a network aware VM migration: Evaluating the cost of VM migration in cloud data centers 2014 ,		7
37	Cloud-assisted dynamic spectrum access for VANET in transportation cyber-physical systems 2014 ,		2
36	RootkitDet: Practical End-to-End Defense against Kernel Rootkits in a Cloud Environment. <i>Lecture Notes in Computer Science</i> , 2014 , 475-493	0.9	7
35	Security Risk Assessment of Cloud Carrier 2013 ,		12
34	Auditing and Analysis of Network Traffic in Cloud Environment 2013 ,		3
33	Waiting Probability Analysis for Dynamic Spectrum Access in Cognitive Radio Networks 2013 ,		1
32	Game theoretic approach to dynamic spectrum access with multi-radio and QoS requirements 2013 ,		1
31	Cloud Computing Based Cognitive Radio Networking. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2013 , 153-164	0.2	1
30	Detection of anomalies in network traffic using L2E for accurate speaker recognition 2012 ,		1
29	Secure Radio Resource Management in Cloud Computing Based Cognitive Radio Networks 2012 ,		16
28	Enhancing the classification accuracy of IP geolocation 2012 ,		2

27	Mining Concept Drifting Network Traffic in Cloud Computing Environments 2012 ,		6
26	Development of an integrated network visualisation and graph analysis tool for biological networks. <i>International Journal of Computational Biology and Drug Design</i> , 2012 , 5, 152-63	0.4	
25	Cognitive Radio: Primary User Emulation Attacks and Remedies. <i>Recent Patents on Computer Science</i> , 2012 , 5, 103-108	1	2
24	Feature and Signal Enhancement for Robust Speaker Identification of G.729 Decoded Speech. <i>Lecture Notes in Computer Science</i> , 2012 , 345-352	0.9	3
23	Adaptive virtual reality game system for personalized problem-based learning 2011 ,		3
22	An integrated machine learning and control theoretic model for mining concept-drifting data streams 2011 ,		5
21	Interactive and Collaborative Games Promoting Metacognition for Science and Engineering Design. <i>Communications in Computer and Information Science</i> , 2011 , 405-412	0.3	3
20	The affine transform and feature fusion for robust speaker identification in the presence of speech coding distortion 2010 ,		1
19	Control-Free Dynamic Spectrum Access for Cognitive Radio Networks 2010 ,		9
18	Empowering students with engineering literacy and problem-solving through interactive virtual reality games 2010 ,		4
17	TCP Venoplus A cross-layer approach to improve TCP performance in wired-cum-wireless networks using signal strength 2010 ,		5
16	Using Hidden Markov Model to detect rogue access points. <i>Security and Communication Networks</i> , 2010 , 3, 394-407	1.9	2
15	Learning distributed bayesian network structure using majority-based method. <i>Journal of Computational Methods in Sciences and Engineering</i> , 2009 , 9, S53-S68	0.3	
14	The impact of antenna orientation on wireless sensor network performance 2009 ,		16
13	PLL Based Time Synchronization in Wireless Sensor Networks 2009 ,		1
12	A Learning-based Multiuser Opportunistic Spectrum Access Approach in Unslotted Primary Networks 2009 ,		12
11	Virtual wired transmission scheme using directional antennas to improve energy efficiency in wireless mobile ad-hoc networks 2008 ,		1
10	A Hidden Markov Model based approach to detect Rogue Access Points 2008 ,		14

9	Data Mining of Bayesian Network Structure Using a Semantic Genetic Algorithm-Based Approach 2008 , 1081-1090		
8	Coexistence of IEEE 802.11b and Bluetooth: An Integrated Performance Analysis. <i>Mobile Networks and Applications</i> , 2007 , 12, 450-459	2.9	5
7	Rogue Access Point Detection by Analyzing Network Traffic Characteristics 2007 ,		31
6	Detecting Compromised Nodes in Wireless Sensor Networks 2007 ,		15
5	An Immune Middleware for Embedded System 2007 ,		2
4	Data Mining of Bayesian Network Structure Using a Semantic Genetic Algorithm-Based Approach 2007 , 42-53		1
3	Fair and Smooth Scheduling for Virtual Output Queuing Switches Achieving 100% Throughput. <i>Lecture Notes in Computer Science</i> , 2005 , 405-413	0.9	
2	Structure learning of Bayesian networks using a semantic genetic algorithm-based approach		2
1	Casper: a blockchain-based system for efficient and secure customer credential verification. <i>Journal of Banking and Financial Technology</i> ,1	2.6	3