

# Sanjay K Jha

## List of Publications by Year in descending order

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133  
papers

3,327  
citations

304368

22  
h-index

205818

48  
g-index

135  
all docs

135  
docs citations

135  
times ranked

3548  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of COVID-19 Contact Tracing Apps. IEEE Access, 2020, 8, 134577-134601.	2.6	469
2	The holes problem in wireless sensor networks. Mobile Computing and Communications Review, 2005, 9, 4-18.	1.7	340
3	Energy-Efficient Cooperative Relaying for Unmanned Aerial Vehicles. IEEE Transactions on Mobile Computing, 2016, 15, 1377-1386.	3.9	161
4	Secure Data Aggregation Technique for Wireless Sensor Networks in the Presence of Collusion Attacks. IEEE Transactions on Dependable and Secure Computing, 2015, 12, 98-110.	3.7	143
5	A Survey of Securing Networks Using Software Defined Networking. IEEE Transactions on Reliability, 2015, 64, 1086-1097.	3.5	135
6	B-FERL: Blockchain based framework for securing smart vehicles. Information Processing and Management, 2021, 58, 102426.	5.4	91
7	On the importance of link characterization for aerial wireless sensor networks. , 2016, 54, 52-57.		89
8	CSI-MIMO: Indoor Wi-Fi fingerprinting system. , 2014, , .		78
9	Received signal strength indicator and its analysis in a typical WLAN system (short paper). , 2013, , .		74
10	Measurement, Characterization, and Modeling of LoRa Technology in Multifloor Buildings. IEEE Internet of Things Journal, 2020, 7, 298-310.	5.5	73
11	Safety assurance and rescue communication systems in high-stress environments: A mining case study. , 2010, 48, 66-73.		70
12	LoRa-Key: Secure Key Generation System for LoRa-Based Network. IEEE Internet of Things Journal, 2019, 6, 6404-6416.	5.5	69
13	Detection and Tracking Using Particle-Filter-Based Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2010, 9, 1332-1345.	3.9	60
14	CSI-MIMO: An efficient Wi-Fi fingerprinting using Channel State Information with MIMO. Pervasive and Mobile Computing, 2015, 23, 89-103.	2.1	55
15	Software-Defined Network (SDN) Data Plane Security: Issues, Solutions, and Future Directions. , 2020, , 341-387.		54
16	The Design, Implementation, and Deployment of a Smart Lighting System for Smart Buildings. IEEE Internet of Things Journal, 2019, 6, 7266-7281.	5.5	53
17	Deploying long-lived and cost-effective hybrid sensor networks. Ad Hoc Networks, 2006, 4, 749-767.	3.4	51
18	Statistical reliability for energy efficient data transport in wireless sensor networks. Wireless Networks, 2010, 16, 1913-1927.	2.0	48

#	ARTICLE	IF	CITATIONS
19	Toward trusted wireless sensor networks. ACM Transactions on Sensor Networks, 2010, 7, 1-25.	2.3	45
20	Topology Control and Channel Assignment in Multi-Radio Multi-Channel Wireless Mesh Networks. , 2007, , .		39
21	B-FICA: BlockChain based Framework for Auto-Insurance Claim and Adjudication. , 2018, , .		38
22	DLINK: Dual link based radio frequency fingerprinting for wearable devices. , 2015, , .		37
23	Accelerometer and Fuzzy Vault-Based Secure Group Key Generation and Sharing Protocol for Smart Wearables. IEEE Transactions on Information Forensics and Security, 2017, 12, 2467-2482.	4.5	37
24	WedgeTail. , 2017, , .		35
25	High-Throughput Reliable Multicast in Multi-Hop Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2015, 14, 728-741.	3.9	31
26	Fair Scheduling for Data Collection in Mobile Sensor Networks with Energy Harvesting. IEEE Transactions on Mobile Computing, 2019, 18, 1274-1287.	3.9	30
27	Protecting Multicast Sessions in Wireless Mesh Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	29
28	Secure multi-hop network programming with multiple one-way key chains. , 2008, , .		29
29	A high-throughput routing metric for reliable multicast in multi-rate wireless mesh networks. , 2011, , .		28
30	Securing First-Hop Data Provenance for Bodyworn Devices Using Wireless Link Fingerprints. IEEE Transactions on Information Forensics and Security, 2014, 9, 2193-2204.	4.5	26
31	SeAK: Secure Authentication and Key Generation Protocol Based on Dual Antennas for Wireless Body Area Networks. Lecture Notes in Computer Science, 2014, , 74-89.	1.0	25
32	A confidential and DoS-resistant multi-hop code dissemination protocol for wireless sensor networks. Computers and Security, 2013, 32, 36-55.	4.0	23
33	A remote attestation protocol with Trusted Platform Modules (TPMs) in wireless sensor networks.. Security and Communication Networks, 2015, 8, 2171-2188.	1.0	22
34	I Am Alice, I Was in Wonderland: Secure Location Proof Generation and Verification Protocol. , 2016, , .		21
35	Overcoming radio link asymmetry in wireless sensor networks. , 2008, , .		20
36	Utilizing Link Characterization for Improving the Performance of Aerial Wireless Sensor Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 1639-1649.	9.7	20

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37	Interdependent Security Risk Analysis of Hosts and Flows. IEEE Transactions on Information Forensics and Security, 2015, 10, 2325-2339.	4.5	20
38	Secure Multihop Network Programming with Multiple One-Way Key Chains. IEEE Transactions on Mobile Computing, 2011, 10, 16-31.	3.9	19
39	Addressing Mobility in Wireless Sensor Media Access Protocol. International Journal of Distributed Sensor Networks, 2005, 1, 269-280.	1.3	18
40	Resource-Aware Video Multicasting via Access Gateways in Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2012, 11, 881-895.	3.9	18
41	Automated Analysis of Secure Internet of Things Protocols. , 2017, , .		18
42	EPLA: Energy-balancing packets scheduling for airborne relaying networks. , 2015, , .		17
43	MTRA: Multiple-tier remote attestation in IoT networks. , 2017, , .		17
44	A hybrid sensor network for cane-toad monitoring. , 2005, , .		16
45	MTRA: Multi-Tier randomized remote attestation in IoT networks. Computers and Security, 2019, 81, 78-93.	4.0	16
46	Failure-Oriented Path Restoration Algorithm for Survivable Networks. IEEE Transactions on Network and Service Management, 2004, 1, 11-20.	3.2	15
47	Resource-aware video multicasting via access gateways in wireless mesh networks. , 2008, , .		15
48	Multuser MIMO Scheduling for Mobile Video Applications. IEEE Transactions on Wireless Communications, 2014, 13, 5382-5395.	6.1	15
49	Analyzing XACML policies using answer set programming. International Journal of Information Security, 2019, 18, 465-479.	2.3	15
50	A pragmatic approach to area coverage in hybrid wireless sensor networks. Wireless Communications and Mobile Computing, 2011, 11, 23-45.	0.8	14
51	Outdoor Sensornet Design and Deployment: Experiences from a Sugar Farm. IEEE Pervasive Computing, 2012, 11, 82-91.	1.1	14
52	Acoustical ranging techniques in embedded wireless sensor networked devices. ACM Transactions on Sensor Networks, 2013, 10, 1-38.	2.3	14
53	ESIoT. , 2017, , .		14
54	SEDA: Secure Over-the-Air Code Dissemination Protocol for the Internet of Things. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 1041-1054.	3.7	14

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55	Addressing Mobility in Wireless Sensor Media Access Protocol. , 0, , .		13
56	Mitigating the effect of interference in Wireless Sensor Networks. , 2010, , .		13
57	Secure key generation and distribution protocol for wearable devices. , 2016, , .		13
58	Rate-Diversity and Resource-Aware Broadcast and Multicast in Multi-rate Wireless Mesh Networks. Mobile Networks and Applications, 2008, 13, 38-53.	2.2	11
59	Priority-based coverage path planning for Aerial Wireless Sensor Networks. , 2013, , .		11
60	Bandwidth Aware Slot Allocation in Hybrid MAC. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	9
61	Probabilistically reliable on-demand multicast in wireless mesh networks. , 2008, , .		9
62	Performance evaluation of a wireless sensor network based tracking system. , 2008, , .		9
63	An empirical study of asymmetry in low-power wireless links. , 2012, 50, 137-146.		9
64	Reliable positioning with hybrid antenna model for aerial wireless sensor and actor networks. , 2014, , .		9
65	The Early Bird Gets the Botnet: A Markov Chain Based Early Warning System for Botnet Attacks. , 2016, , .		9
66	Towards a Compressive-Sensing-Based Lightweight Encryption Scheme for the Internet of Things. IEEE Transactions on Mobile Computing, 2021, 20, 3049-3065.	3.9	9
67	A Graph Drawing Approach to Sensor Network Localization. , 2007, , .		8
68	A Collaborative Reputation System Based on Credibility Propagation in WSNs. , 2015, , .		8
69	Sparse representation based acoustic rangefinders: from sensor platforms to mobile devices. , 2015, 53, 249-257.		8
70	Anomaly-free policy composition in software-defined networks. , 2016, , .		8
71	Timestamp integrity in wearable healthcare devices. , 2016, , .		8
72	Privacy preserving data access scheme for IoT devices. , 2017, , .		8

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73	Exploring the Feasibility of Physical Layer Key Generation for LoRaWAN. , 2018, , .		8
74	Characterization of Asymmetry in Low-Power Wireless Links: An Empirical Study. Lecture Notes in Computer Science, 2011, , 340-351.	1.0	8
75	PhishSim: Aiding Phishing Website Detection With a Feature-Free Tool. IEEE Transactions on Information Forensics and Security, 2022, 17, 1497-1512.	4.5	8
76	Efficient Boundary Estimation for Practical Deployment of Mobile Sensors in Hybrid Sensor Networks. , 2006, , .		7
77	A Cut-through MAC for Multiple Interface, Multiple Channel Wireless Mesh Networks. , 2007, , .		7
78	Multi-Source Video Multicast in Internet-Connected Wireless Mesh Networks. IEEE Transactions on Mobile Computing, 2017, 16, 3431-3444.	3.9	7
79	An energy efficient select optimal neighbor protocol for wireless ad hoc networks. , 0, , .		6
80	QoS Driven Parallelization of Resources to Reduce File Download Delay. IEEE Transactions on Parallel and Distributed Systems, 2006, 17, 1204-1215.	4.0	6
81	Non-Cooperative Coexistence of Co-located Independent Wireless Mesh Networks. , 2007, , .		6
82	Broadcast Secrecy via Key-Chain-Based Encryption in Single-Hop Wireless Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	1.5	6
83	TWEET. , 2011, , .		6
84	Optimal opportunistic routing and network coding for bidirectional wireless flows. Computer Networks, 2013, 57, 4030-4046.	3.2	6
85	Method for providing secure and private fine-grained access to outsourced data. , 2015, , .		6
86	iARC. , 2015, , .		6
87	Sparsity Based Efficient Cross-Correlation Techniques in Sensor Networks. IEEE Transactions on Mobile Computing, 2017, 16, 2037-2050.	3.9	6
88	DIMY: Enabling privacy-preserving contact tracing. Journal of Network and Computer Applications, 2022, 202, 103356.	5.8	6
89	Design, Analysis, and Implementation of a Novel Low Complexity Scheduler for Joint Resource Allocation. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 749-762.	4.0	5
90	RRAND: A New Requirement Aware RAND based Flexible Slot Allocation Mechanism Optimized For Spatial Reuse Of Slots. , 2007, , .		5

#	ARTICLE	IF	CITATIONS
91	ECTX: A high-throughput path metric for multi-hop wireless routing exploiting MAC-layer cooperative retransmission. , 2012, , .		5
92	Reliable communications in aerial sensor networks by using a hybrid antenna. , 2012, , .		5
93	ℱ-FSOM: Fair Link Scheduling Optimization for Energy-Aware Data Collection in Mobile Sensor Networks. Lecture Notes in Computer Science, 2014, , 17-33.	1.0	5
94	Network management in new realms: wireless sensor networks. International Journal of Network Management, 2005, 15, 219-221.	1.4	4
95	Energy Efficient Reliable Data Collection in Wireless Sensor Networks with Asymmetric Links. International Journal of Wireless Information Networks, 2009, 16, 131-141.	1.8	4
96	Robust Power Allocation for MIMO Beamforming under Time Varying Channel Conditions. , 2011, , .		4
97	Joint channel and delay aware user scheduling for multiuser MIMO system over LTE-A network. , 2013, , .		4
98	A trust assessment framework for streaming data in WSNs using iterative filtering. , 2015, , .		4
99	Towards Policy Enforcement Point as a Service (PEPS). , 2016, , .		4
100	Reliable transmissions in AWSNs by using O-BESPAR hybrid antenna. Pervasive and Mobile Computing, 2016, 30, 151-165.	2.1	4
101	Light Weight Write Mechanism for Cloud Data. IEEE Transactions on Parallel and Distributed Systems, 2018, 29, 1131-1146.	4.0	4
102	Gargoyle: A Network-based Insider Attack Resilient Framework for Organizations. , 2018, , .		4
103	Gwardar: Towards Protecting a Software-Defined Network from Malicious Network Operating Systems. , 2018, , .		4
104	PLAR. , 2019, , .		4
105	Adaptive, distributed location management in mobile, wireless networks. , 2004, , .		3
106	Efficient Bandwidth Guaranteed Restoration Algorithms for Multicast Connections. Lecture Notes in Computer Science, 2005, , 1005-1017.	1.0	3
107	Design, Analysis and Implementation of a Novel Multiple Resource Scheduler. IEEE Transactions on Computers, 2007, 56, 1071-1086.	2.4	3
108	Efficient Reliable Data Collection in Wireless Sensor Networks. , 2008, , .		3

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109	Flexible resource allocation for multicast in OFDMA based wireless networks. , 2012, , .		3
110	An Iterative Algorithm for Reputation Aggregation in Multi-dimensional and Multinomial Rating Systems. IFIP Advances in Information and Communication Technology, 2015, , 189-203.	0.5	3
111	Long-term secure management of large scale Internet of Things applications. Journal of Network and Computer Applications, 2019, 138, 15-26.	5.8	3
112	Health Access Broker: Secure, Patient-Controlled Management of Personal Health Records in the Cloud. Advances in Intelligent Systems and Computing, 2021, , 111-121.	0.5	3
113	iRECOVer: Patch your IoT on-the-fly. Future Generation Computer Systems, 2022, 132, 178-193.	4.9	3
114	An Adaptive Resource Management Architecture for Active Networks. Telecommunication Systems, 2003, 24, 139-166.	1.6	2
115	Placing Multicast Proxies for Internet Live Media Streaming. , 2007, , .		2
116	An end-to-end delay metric for multi-rate wireless mesh networks with cooperative retransmission. , 2013, , .		2
117	Iterative Security Risk Analysis for Network Flows Based on Provenance and Interdependency. , 2013, , .		2
118	PhishZip: A New Compression-based Algorithm for Detecting Phishing Websites. , 2020, , .		2
119	Orchestration or Automation: Authentication Flaw Detection in Android Apps. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2165-2178.	3.7	2
120	Implementation aspects of reliable transport protocols in wireless sensor networks. , 2008, , .		1
121	Trajectory Approximation for Resource Constrained Mobile Sensor Networks. , 2014, , .		1
122	Light weight and fine-grained access mechanism for secure access to outsourced data*. Concurrency Computation Practice and Experience, 2019, 31, e4736.	1.4	1
123	Towards Privacy-preserving Digital Contact Tracing. , 2021, , .		1
124	Video Decompression Estimation and Playout Scheme Over the Internet. Multimedia Tools and Applications, 2005, 25, 305-321.	2.6	0
125	Resilience provisioning in provider-based overlay networks. , 2005, , .		0
126	RTRG: Reschedule Trigger to optimize rescheduling frequency for schedule based MAC schemes. , 2007, , .		0



#	ARTICLE	IF	CITATIONS
127	Comments on "Dynamic Routing of Restorable Bandwidth-Guaranteed Tunnels Using Aggregated Network Resource Usage Information. IEEE/ACM Transactions on Networking, 2008, 16, 244-245.	2.6	0
128	Host-aware routing in multicast overlay backbone. , 2008, , .		0
129	Feasibility of SINR guarantees for downlink transmissions in relay-enabled OFDMA networks. , 2011, , .		0
130	Feasibility of SINR guarantees for downlink transmissions in relay-enabled OFDMA networks. Automatica, 2012, 48, 1818-1824.	3.0	0
131	Lightweight clustering of spatio-temporal data in resource constrained mobile sensing. , 2015, , .		0
132	Access Mechanism for Outsourced Data by Preserving Data Owner's Preference. , 2017, , .		0
133	Secure Device Pairing Protocol Based on Wireless Channel Characteristics for Body Area Networks. , 2021, , 151-179.		0