

# Sandeep K Sood

## List of Publications by Year in descending order

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Version: 2024-02-01

137  
papers

4,285  
citations

159525

30  
h-index

138417

58  
g-index

138  
all docs

138  
docs citations

138  
times ranked

3437  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fog Assisted-IoT Enabled Patient Health Monitoring in Smart Homes. IEEE Internet of Things Journal, 2018, 5, 1789-1796.	5.5	332
2	Secure authentication scheme for IoT and cloud servers. Pervasive and Mobile Computing, 2015, 24, 210-223.	2.1	223
3	An Energy-Efficient Architecture for the Internet of Things (IoT). IEEE Systems Journal, 2017, 11, 796-805.	2.9	207
4	A secure dynamic identity based authentication protocol for multi-server architecture. Journal of Network and Computer Applications, 2011, 34, 609-618.	5.8	197
5	A cybersecurity framework to identify malicious edge device in fog computing and cloud-of-things environments. Computers and Security, 2018, 74, 340-354.	4.0	180
6	A combined approach to ensure data security in cloud computing. Journal of Network and Computer Applications, 2012, 35, 1831-1838.	5.8	167
7	Cloud-centric IoT based disease diagnosis healthcare framework. Journal of Parallel and Distributed Computing, 2018, 116, 27-38.	2.7	162
8	Wearable IoT sensor based healthcare system for identifying and controlling chikungunya virus. Computers in Industry, 2017, 91, 33-44.	5.7	132
9	Cloud-centric IoT based student healthcare monitoring framework. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1293-1309.	3.3	92
10	A Fog-Based Healthcare Framework for Chikungunya. IEEE Internet of Things Journal, 2018, 5, 794-801.	5.5	88
11	A comprehensive health assessment framework to facilitate IoT-assisted smart workouts: A predictive healthcare perspective. Computers in Industry, 2017, 92-93, 50-66.	5.7	86
12	IoT-based cloud framework to control Ebola virus outbreak. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 459-476.	3.3	67
13	Temporal Informative Analysis in Smart-ICU Monitoring: M-HealthCare Perspective. Journal of Medical Systems, 2016, 40, 190.	2.2	66
14	Fog-cloud based cyber-physical system for distinguishing, detecting and preventing mosquito borne diseases. Future Generation Computer Systems, 2018, 88, 764-775.	4.9	62
15	IoT-Fog-Based Healthcare Framework to Identify and Control Hypertension Attack. IEEE Internet of Things Journal, 2019, 6, 1920-1927.	5.5	60
16	IoT, big data and HPC based smart flood management framework. Sustainable Computing: Informatics and Systems, 2018, 20, 102-117.	1.6	57
17	Smart monitoring and controlling of Pandemic Influenza A (H1N1) using Social Network Analysis and cloud computing. Journal of Computational Science, 2016, 12, 11-22.	1.5	54
18	Exploring Temporal Analytics in Fog-Cloud Architecture for Smart Office HealthCare. Mobile Networks and Applications, 2019, 24, 1392-1410.	2.2	53

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19	Quantum Computing-Inspired Network Optimization for IoT Applications. IEEE Internet of Things Journal, 2020, 7, 5590-5598.	5.5	49
20	An intelligent and secure system for predicting and preventing Zika virus outbreak using Fog computing. Enterprise Information Systems, 0, , 1-21.	3.3	48
21	Scheduling of big data applications on distributed cloud based on QoS parameters. Cluster Computing, 2015, 18, 817-828.	3.5	46
22	An Automatic Prediction of Epileptic Seizures Using Cloud Computing and Wireless Sensor Networks. Journal of Medical Systems, 2016, 40, 226.	2.2	45
23	Quantum-based predictive fog scheduler for IoT applications. Computers in Industry, 2019, 111, 51-67.	5.7	45
24	An intelligent system for predicting and preventing MERS-CoV infection outbreak. Journal of Supercomputing, 2016, 72, 3033-3056.	2.4	44
25	An Optical-Fog assisted EEG-based virtual reality framework for enhancing E-learning through educational games. Computer Applications in Engineering Education, 2018, 26, 1565-1576.	2.2	42
26	Internet of things-inspired healthcare system for urine-based diabetes prediction. Artificial Intelligence in Medicine, 2020, 107, 101913.	3.8	40
27	Knowledge mapping of computer applications in education using CiteSpace. Computer Applications in Engineering Education, 2021, 29, 1324-1339.	2.2	40
28	A Scientometric Review of Global Research on Smart Disaster Management. IEEE Transactions on Engineering Management, 2021, 68, 317-329.	2.4	38
29	An improvement of Xu et al.'s authentication scheme using smart cards. , 2010, , .		36
30	Matrix based proactive resource provisioning in mobile cloud environment. Simulation Modelling Practice and Theory, 2015, 50, 83-95.	2.2	36
31	Deep learning based drought assessment and prediction framework. Ecological Informatics, 2020, 57, 101067.	2.3	36
32	Cognitive decision making in smart industry. Computers in Industry, 2015, 74, 151-161.	5.7	35
33	Efficient Resource Management System Based on 4Vs of Big Data Streams. Big Data Research, 2017, 9, 98-106.	2.6	33
34	Scientometric analysis of literature on distributed vehicular networks : VOSViewer visualization techniques. Artificial Intelligence Review, 2021, 54, 6309-6341.	9.7	31
35	Fog-assisted IoT-enabled scalable network infrastructure for wildfire surveillance. Journal of Network and Computer Applications, 2019, 144, 171-183.	5.8	30
36	SNA Based Resource Optimization in Optical Network using Fog and Cloud Computing. Optical Switching and Networking, 2019, 33, 114-121.	1.2	30

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37	A visual review of artificial intelligence and Industry 4.0 in healthcare. Computers and Electrical Engineering, 2022, 101, 107948.	3.0	30
38	SECURE INTERNET OF THINGS-BASED CLOUD FRAMEWORK TO CONTROL ZIKA VIRUS OUTBREAK. International Journal of Technology Assessment in Health Care, 2017, 33, 11-18.	0.2	28
39	A comprehensive framework for student stress monitoring in fog-cloud IoT environment: m-health perspective. Medical and Biological Engineering and Computing, 2019, 57, 231-244.	1.6	27
40	Analytical mapping of information and communication technology in emerging infectious diseases using CiteSpace. Telematics and Informatics, 2022, 69, 101796.	3.5	27
41	Ten years of disaster management and use of ICT: a scientometric analysis. Earth Science Informatics, 2020, 13, 1-27.	1.6	26
42	Quantumized approach of load scheduling in fog computing environment for IoT applications. Computing (Vienna/New York), 2020, 102, 1097-1115.	3.2	26
43	Smart computing based student performance evaluation framework for engineering education. Computer Applications in Engineering Education, 2017, 25, 977-991.	2.2	25
44	Cloud-Fog based framework for drought prediction and forecasting using artificial neural network and genetic algorithm. Journal of Experimental and Theoretical Artificial Intelligence, 2020, 32, 273-289.	1.8	25
45	5G ready optical fog-assisted cyber-physical system for IoT applications. IET Cyber-Physical Systems: Theory and Applications, 2020, 5, 137-144.	1.9	25
46	IoT-Inspired Smart Toilet System for Home-Based Urine Infection Prediction. ACM Transactions on Computing for Healthcare, 2020, 1, 1-25.	3.3	24
47	Adaptive Neuro Fuzzy Inference System (ANFIS) based wildfire risk assessment. Journal of Experimental and Theoretical Artificial Intelligence, 2019, 31, 599-619.	1.8	23
48	Smart vehicular traffic management: An edge cloud centric IoT based framework. Internet of Things (Netherlands), 2021, 14, 100140.	4.9	23
49	Optical fog-assisted smart learning framework to enhance students' employability in engineering education. Computer Applications in Engineering Education, 2019, 27, 1030-1042.	2.2	22
50	Energy-Efficient IoT-Fog-Cloud Architectural Paradigm for Real-Time Wildfire Prediction and Forecasting. IEEE Systems Journal, 2020, 14, 2003-2011.	2.9	22
51	A Cloud-Based Seizure Alert System for Epileptic Patients That Uses Higher-Order Statistics. Computing in Science and Engineering, 2016, 18, 56-67.	1.2	21
52	A Game Theoretic Approach for an IoT-Based Automated Employee Performance Evaluation. IEEE Systems Journal, 2017, 11, 1385-1394.	2.9	21
53	Emerging trends and global scope of big data analytics: a scientometric analysis. Quality and Quantity, 2021, 55, 1371-1396.	2.0	21
54	A fog assisted intelligent framework based on cyber physical system for safe evacuation in panic situations. Computer Communications, 2021, 178, 297-306.	3.1	21

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55	Secure Dynamic Identity-Based Authentication Scheme Using Smart Cards. Information Security Journal, 2011, 20, 67-77.	1.3	20
56	Advanced password based authentication scheme for wireless sensor networks. Journal of Information Security and Applications, 2015, 20, 37-46.	1.8	20
57	Internet of Things based activity surveillance of defence personnel. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 2061-2076.	3.3	20
58	Cloud-assisted green IoT-enabled comprehensive framework for wildfire monitoring. Cluster Computing, 2020, 23, 1149-1162.	3.5	20
59	Cloud-Centric IoT-Based Green Framework for Smart Drought Prediction. IEEE Internet of Things Journal, 2020, 7, 1111-1121.	5.5	20
60	A Fog-Cloud based cyber physical system for Ulcerative Colitis diagnosis and stage classification and management. Microprocessors and Microsystems, 2020, 72, 102929.	1.8	20
61	Optical fog-assisted cyber-physical system for intelligent surveillance in the education system. Computer Applications in Engineering Education, 2020, 28, 692-704.	2.2	20
62	Security Issues in Cloud Computing. Communications in Computer and Information Science, 2011, , 36-45.	0.4	19
63	A trustworthy system for secure access to patient centric sensitive information. Telematics and Informatics, 2018, 35, 790-800.	3.5	19
64	Kyasanur Forest Disease Classification Framework Using Novel Extremal Optimization Tuned Neural Network in Fog Computing Environment. Journal of Medical Systems, 2018, 42, 187.	2.2	19
65	Mobile fog based secure cloud-IoT framework for enterprise multimedia security. Multimedia Tools and Applications, 2020, 79, 10717-10732.	2.6	19
66	Disaster emergency response framework for smart buildings. Future Generation Computer Systems, 2022, 131, 106-120.	4.9	19
67	A scientometric analysis of ICT-assisted disaster management. Natural Hazards, 2021, 106, 2863-2881.	1.6	18
68	Fog-Cloud centric IoT-based cyber physical framework for panic oriented disaster evacuation in smart cities. Earth Science Informatics, 2022, 15, 1449-1470.	1.6	17
69	An Improvement of Liou et al.'s Authentication Scheme using Smart Cards. International Journal of Computer Applications, 2010, 1, 17-24.	0.2	17
70	Advanced remote user authentication protocol for multi-server architecture based on ECC. Journal of Information Security and Applications, 2013, 18, 98-107.	1.8	16
71	Student career path recommendation in engineering stream based on three-dimensional model. Computer Applications in Engineering Education, 2017, 25, 578-593.	2.2	16
72	Game theoretic decision making in IoT-assisted activity monitoring of defence personnel. Multimedia Tools and Applications, 2017, 76, 21911-21935.	2.6	16

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73	Bibliometric monitoring of research performance in ICT-based disaster management literature. Quality and Quantity, 2021, 55, 103-132.	2.0	16
74	Dynamic resource allocation for big data streams based on data characteristics (5<scp>V</scp>s). International Journal of Network Management, 2017, 27, e1978.	1.4	15
75	Internet of Things-based student performance evaluation framework. Behaviour and Information Technology, 2018, 37, 102-119.	2.5	15
76	Analytical mapping of research on disaster management, types and role of ICT during 2011â€“2018. Environmental Hazards, 2019, 18, 266-285.	1.4	15
77	Security in <scp>IoT</scp> network based on stochastic game net model. International Journal of Network Management, 2017, 27, e1975.	1.4	14
78	QoS-Aware Optical Fog-Assisted Cyber-Physical System in the 5G Ready Heterogeneous Network. Wireless Personal Communications, 2021, 116, 3331-3350.	1.8	14
79	An intelligent healthcare system for predicting and preventing dengue virus infection. Computing (Vienna/New York), 2023, 105, 617-655.	3.2	14
80	Fogâ€assisted virtual realityâ€based learning framework to control panic. Expert Systems, 2022, 39, e12700.	2.9	14
81	3-D Printing Technologies From Infancy to Recent Times: A Scientometric Review. IEEE Transactions on Engineering Management, 2024, 71, 671-687.	2.4	14
82	Cryptanalysis of password authentication schemes: Current status and key issues. , 2009, , .		13
83	TDRM: tensor-based data representation and mining for healthcare data in cloud computing environments. Journal of Supercomputing, 2018, 74, 592-614.	2.4	13
84	A Fog Assisted Cyber-Physical Framework for Identifying and Preventing Coronary Heart Disease. Wireless Personal Communications, 2018, 101, 143-165.	1.8	13
85	Hydro-meteorological hazards and role of ICT during 2010-2019: A scientometric analysis. Earth Science Informatics, 2020, 13, 1201-1223.	1.6	13
86	Fog-inspired smart home environment for domestic animal healthcare. Computer Communications, 2020, 160, 521-533.	3.1	13
87	Scientometric Analysis of Natural Disaster Management Research. Natural Hazards Review, 2021, 22, .	0.8	13
88	An improvement of Wang et al.'s authentication scheme using smart cards. , 2010, , .		12
89	An improvement of Liao et al.'s authentication scheme using smart cards. , 2010, , .		12
90	Elliptic curve cryptography. , 2011, , .		12

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91	An intelligent framework for workouts in gymnasium: M-Health perspective. Computers and Electrical Engineering, 2018, 65, 292-309.	3.0	12
92	An Energy Efficient e-Healthcare Framework Supported by Novel EO-1/4GA (Extremal Optimization Tuned) Tj ETQq0,0,0 rgBT /Overlock 1	4.1	12
93	Identification of a Malicious Optical Edge Device in the SDN-Based Optical Fog/Cloud Computing Network. Journal of Optical Communications, 2021, 42, 91-102.	4.0	12
94	Secure Dynamic Identity-Based Remote User Authentication Scheme. Lecture Notes in Computer Science, 2010, , 224-235.	1.0	12
95	Towards the design of a secure data outsourcing using fragmentation and secret sharing scheme. Information Security Journal, 2016, 25, 39-53.	1.3	11
96	A stochastic game netâ€based model for effective decisionâ€making in smart environments. Concurrency Computation Practice and Experience, 2017, 29, e3843.	1.4	11
97	Identification of malicious edge devices in fog computing environments. Information Security Journal, 2017, 26, 213-228.	1.3	11
98	SNA based QoS and reliability in fog and cloud framework. World Wide Web, 2018, 21, 1601-1616.	2.7	11
99	Energy efficient IoT-Fog based architectural paradigm for prevention of Dengue fever infection. Journal of Parallel and Distributed Computing, 2021, 150, 46-59.	2.7	11
100	Function pointsâ€based resource prediction in cloud computing. Concurrency Computation Practice and Experience, 2016, 28, 2781-2794.	1.4	10
101	Energy efficient e-healthcare framework using HWPSO-based clustering approach. Journal of Intelligent and Fuzzy Systems, 2019, 36, 3957-3969.	0.8	10
102	Fogâ€Cloud Assisted IoT-Based Hierarchical Approach For Controlling Dengue Infection. Computer Journal, 2020, , .	1.5	10
103	Energy efficient IoT-based cloud framework for early flood prediction. Natural Hazards, 2021, 109, 2053-2076.	1.6	10
104	A commercial, benefit driven and secure framework for elearning in cloud computing. Computer Applications in Engineering Education, 2015, 23, 499-513.	2.2	8
105	Artificial Intelligence-Based Model For Drought Prediction and Forecasting. Computer Journal, 2020, 63, 1704-1712.	1.5	8
106	An intelligent framework for monitoring dengue fever risk using LDA-ANFIS. Journal of Ambient Intelligence and Smart Environments, 2020, 12, 5-20.	0.8	8
107	Elliptic Curve Cryptography: Current Status and Research Challenges. Communications in Computer and Information Science, 2011, , 455-460.	0.4	7
108	Dynamic identityâ€based single password antiâ€phishing protocol. Security and Communication Networks, 2011, 4, 418-427.	1.0	7

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109	Soft-computing-centric framework for wildfire monitoring, prediction and forecasting. <i>Soft Computing</i> , 2020, 24, 9651-9661.	2.1	7
110	A novel quantum-inspired solution for high-performance energy-efficient data acquisition from IoT networks. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 5001-5020.	3.3	7
111	Exploring the emerging ICT trends in seismic hazard by scientometric analysis during 2010â€“2019. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	1.3	7
112	A novel DNA-inspired encryption strategy for concealing cloud storage. <i>Frontiers of Computer Science</i> , 2021, 15, 1.	1.6	7
113	An Integrated Framework for Smart Earthquake Prediction: IoT, Fog, and Cloud Computing. <i>Journal of Grid Computing</i> , 2022, 20, 1.	2.5	7
114	A Smart Disaster Management Framework For Wildfire Detection and Prediction. <i>Computer Journal</i> , 2020, 63, 1644-1657.	1.5	6
115	IoT-inspired smart home based urine infection prediction. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2020, , 1.	3.3	6
116	Cloud-Fog Assisted Energy Efficient Architectural Paradigm for Disaster Evacuation. <i>Information Systems</i> , 2022, 107, 101732.	2.4	6
117	ECC-based anti-phishing protocol for cloud computing services. <i>International Journal of Security and Networks</i> , 2013, 8, 130.	0.1	5
118	Cloud resource management using 3Vs of Internet of Big data streams. <i>Computing (Vienna/New York)</i> , 2020, 102, 1463-1485.	3.2	5
119	ICT in disaster management context: a descriptive and critical review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 86796-86814.	2.7	5
120	Advanced dynamic identity-based authentication protocol using smart card. <i>International Journal of Information and Computer Security</i> , 2016, 8, 11.	0.2	4
121	Fog-assisted Energy Efficient Cyber Physical System for Panic-based Evacuation during Disasters. <i>Computer Journal</i> , 2022, 65, 1540-1559.	1.5	4
122	HMM-Based Secure Framework for Optical Fog Devices in the Optical Fog/Cloud Network. <i>Journal of Optical Communications</i> , 2023, 44, 475-483.	4.0	4
123	An improvement of Hsiang-Shih's authentication scheme using smart cards. , 2010, , .		3
124	Fuzzy-inspired decision making for dependability recommendation in e-commerce industry. <i>Intelligent Decision Technologies</i> , 2020, 14, 181-197.	0.6	3
125	BloT (Blockchain-based IoT) Framework for Disaster Management. , 2022, , .		3
126	A Value Based Dynamic Resource Provisioning Model in Cloud. <i>International Journal of Cloud Applications and Computing</i> , 2013, 3, 1-12.	1.1	2



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127	Analytical mapping on trends of information technology in hydrometeorological disasters research. Geocarto International, 2022, 37, 14171-14197.	1.7	2
128	Smart card based secure authentication and key agreement protocol. , 2010, , .		1
129	Cookie-Based Virtual Password Authentication Protocol. Information Security Journal, 2011, 20, 100-111.	1.3	1
130	Energy efficient cloud-assisted IoT-enabled architectural paradigm for drought prediction. Sustainable Computing: Informatics and Systems, 2021, 30, 100496.	1.6	1
131	Proposed Better Sequence Alignment for Identification of Organisms Using DNA Barcode. Studies in Computational Intelligence, 2018, , 115-150.	0.7	1
132	SSO password-based multi-server authentication protocol. International Journal of Communication Networks and Distributed Systems, 2012, 9, 161.	0.3	0
133	A new approach to design user-driven security pricing model in cloud computing. , 2016, , .		0
134	Designing and analysis of user profiling system for cloud computing security using fuzzy guided genetic algorithm. , 2016, , .		0
135	Scientometric Exploration of ICT-based Smart Disaster Management Research: A Practitioner's View. , 2021, , .		0
136	Hybrid Data Security Model for Cloud. International Journal of Cloud Applications and Computing, 2013, 3, 50-59.	1.1	0
137	Erratum to "A Scientometric Review of Global Research on Smart Disaster Management" [doi: 10.1109/TEM.2020.2972288]. IEEE Transactions on Engineering Management, 2020, 67, 980-980.	2.4	0