Neeraj Kumar, Smieee

List of Publications by Year
in descending order

941 papers	44,353 citations	1614 105 h-index	7518 151 g-index
955 all docs	955 docs citations	955 times ranked	18923 citing authors

#	Article	IF	Citations
1	A survey on privacy protection in blockchain system. Journal of Network and Computer Applications, 2019, 126, 45-58.	9.1	512
2	Path planning techniques for unmanned aerial vehicles: A review, solutions, and challenges. Computer Communications, 2020, 149, 270-299.	5.1	414
3	Blockchain for Industry 4.0: A Comprehensive Review. IEEE Access, 2020, 8, 79764-79800.	4.2	411
4	Blockchain for 5G-enabled IoT for industrial automation: A systematic review, solutions, and challenges. Mechanical Systems and Signal Processing, 2020, 135, 106382.	8.0	392
5	A systematic review on clustering and routing techniques based upon LEACH protocol for wireless sensor networks. Journal of Network and Computer Applications, 2013, 36, 623-645.	9.1	374
6	Decision Tree and SVM-Based Data Analytics for Theft Detection in Smart Grid. IEEE Transactions on Industrial Informatics, 2016, 12, 1005-1016.	11.3	365
7	Fog computing for Healthcare 4.0 environment: Opportunities and challenges. Computers and Electrical Engineering, 2018, 72, 1-13.	4.8	358
8	A Secure Biometrics-Based Multi-Server Authentication Protocol Using Smart Cards. IEEE Transactions on Information Forensics and Security, 2015, 10, 1953-1966.	6.9	347
9	Secure Signature-Based Authenticated Key Establishment Scheme for Future IoT Applications. IEEE Access, 2017, 5, 3028-3043.	4.2	330
10	Anonymous Authentication for Wireless Body Area Networks With Provable Security. IEEE Systems Journal, 2017, 11, 2590-2601.	4.6	309
11	Design of Secure User Authenticated Key Management Protocol for Generic IoT Networks. IEEE Internet of Things Journal, 2018, 5, 269-282.	8.7	298
12	Edge Computing in the Industrial Internet of Things Environment: Software-Defined-Networks-Based Edge-Cloud Interplay. , 2018, 56, 44-51.		297
13	Robust anonymous authentication protocol for health-care applications using wireless medical sensor networks. Multimedia Systems, 2015, 21, 49-60.	4.7	271
14	Security and Privacy for the Internet of Drones: Challenges and Solutions. IEEE Communications Magazine, 2018, 56, 64-69.	6.1	262
15	A Multi-Organ Nucleus Segmentation Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 1380-1391.	8.9	259
16	Blockchain for smart communities: Applications, challenges and opportunities. Journal of Network and Computer Applications, 2019, 144, 13-48.	9.1	249
17	Design of an anonymity-preserving three-factor authenticated key exchange protocol for wireless sensor networks. Computer Networks, 2016, 101, 42-62.	5.1	248
18	A robust and anonymous patient monitoring system using wireless medical sensor networks. Future Generation Computer Systems, 2018, 80, 483-495.	7.5	241

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19	Applications of blockchain in ensuring the security and privacy of electronic health record systems: A survey. Computers and Security, 2020, 97, 101966.	6.0	231
20	Secure Remote User Authenticated Key Establishment Protocol for Smart Home Environment. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 391-406.	5.4	230
21	A light weight authentication protocol for IoT-enabled devices in distributed Cloud Computing environment. Future Generation Computer Systems, 2018, 78, 1005-1019.	7.5	227
22	A systematic review on routing protocols for Vehicular Ad Hoc Networks. Vehicular Communications, 2014, 1, 33-52.	4.0	226
23	Design and Analysis of Secure Lightweight Remote User Authentication and Key Agreement Scheme in Internet of Drones Deployment. IEEE Internet of Things Journal, 2019, 6, 3572-3584.	8.7	218
24	A dynamic password-based user authentication scheme for hierarchical wireless sensor networks. Journal of Network and Computer Applications, 2012, 35, 1646-1656.	9.1	209
25	A secure user anonymity-preserving biometric-based multi-server authenticated key agreement scheme using smart cards. Expert Systems With Applications, 2014, 41, 8129-8143.	7.6	208
26	BEST: Blockchain-based secure energy trading in SDN-enabled intelligent transportation system. Computers and Security, 2019, 85, 288-299.	6.0	207
27	Blockchain for Internet of Energy management: Review, solutions, and challenges. Computer Communications, 2020, 151, 395-418.	5.1	207
28	A secure temporal-credential-based mutual authentication and key agreement scheme with pseudo identity for wireless sensor networks. Information Sciences, 2015, 321, 263-277.	6.9	206
29	Hybrid Deep-Learning-Based Anomaly Detection Scheme for Suspicious Flow Detection in SDN: A Social Multimedia Perspective. IEEE Transactions on Multimedia, 2019, 21, 566-578.	7.2	206
30	SURVIVOR: A blockchain based edge-as-a-service framework for secure energy trading in SDN-enabled vehicle-to-grid environment. Computer Networks, 2019, 153, 36-48.	5.1	200
31	Clustering in vehicular ad hoc networks: Taxonomy, challenges and solutions. Vehicular Communications, 2014, 1, 134-152.	4.0	197
32	Blockchain for IoT-Based Healthcare: Background, Consensus, Platforms, and Use Cases. IEEE Systems Journal, 2021, 15, 85-94.	4.6	196
33	A feature reduced intrusion detection system using ANN classifier. Expert Systems With Applications, 2017, 88, 249-257.	7.6	195
34	Whale Optimization Algorithm With Applications to Resource Allocation in Wireless Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 4285-4297.	6.3	193
35	Certificateless Searchable Public Key Encryption Scheme for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 759-767.	11.3	190
36	Lightweight and Physically Secure Anonymous Mutual Authentication Protocol for Real-Time Data Access in Industrial Wireless Sensor Networks. IEEE Transactions on Industrial Informatics, 2019, 15, 4957-4968.	11.3	188

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37	A Hybrid Deep Learning-Based Model for Anomaly Detection in Cloud Datacenter Networks. IEEE Transactions on Network and Service Management, 2019, 16, 924-935.	4.9	187
38	Cloud Centric Authentication for Wearable Healthcare Monitoring System. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 942-956.	5.4	178
39	TCALAS: Temporal Credential-Based Anonymous Lightweight Authentication Scheme for Internet of Drones Environment. IEEE Transactions on Vehicular Technology, 2019, 68, 6903-6916.	6.3	177
40	BHEEM: A Blockchain-Based Framework for Securing Electronic Health Records. , 2018, , .		176
41	An efficient ECC-based provably secure three-factor user authentication and key agreement protocol for wireless healthcare sensor networks. Computers and Electrical Engineering, 2018, 69, 534-554.	4.8	171
42	Design of secure key management and user authentication scheme for fog computing services. Future Generation Computer Systems, 2019, 91, 475-492.	7.5	170
43	Enhanced three-factor security protocol for consumer USB mass storage devices. IEEE Transactions on Consumer Electronics, 2014, 60, 30-37.	3.6	169
44	LAM-CIoT: Lightweight authentication mechanism in cloud-based IoT environment. Journal of Network and Computer Applications, 2020, 150, 102496.	9.1	169
45	Blockchain-Based Distributed Framework for Automotive Industry in a Smart City. IEEE Transactions on Industrial Informatics, 2019, 15, 4197-4205.	11.3	166
46	Efficient and Privacy-Preserving Data Aggregation Scheme for Smart Grid Against Internal Adversaries. IEEE Transactions on Smart Grid, 2017, 8, 2411-2419.	9.0	165
47	A secure authentication scheme based on elliptic curve cryptography for IoT and cloud servers. Journal of Supercomputing, 2018, 74, 6428-6453.	3.6	162
48	Chaotic Map-Based Anonymous User Authentication Scheme With User Biometrics and Fuzzy Extractor for Crowdsourcing Internet of Things. IEEE Internet of Things Journal, 2018, 5, 2884-2895.	8.7	162
49	SDN-Enabled Multi-Attribute-Based Secure Communication for Smart Grid in IIoT Environment. IEEE Transactions on Industrial Informatics, 2018, 14, 2629-2640.	11.3	161
50	AKM-IoV: Authenticated Key Management Protocol in Fog Computing-Based Internet of Vehicles Deployment. IEEE Internet of Things Journal, 2019, 6, 8804-8817.	8.7	161
51	Biometrics-Based Privacy-Preserving User Authentication Scheme for Cloud-Based Industrial Internet of Things Deployment. IEEE Internet of Things Journal, 2018, 5, 4900-4913.	8.7	159
52	Provably Secure Authenticated Key Agreement Scheme for Smart Grid. IEEE Transactions on Smart Grid, 2016, , 1-1.	9.0	158
53	Fog Vehicular Computing: Augmentation of Fog Computing Using Vehicular Cloud Computing. IEEE Vehicular Technology Magazine, 2017, 12, 55-64.	3.4	158
54	Realizing the Potential of the Internet of Things for Smart Tourism with 5G and AI. IEEE Network, 2020, 34, 295-301.	6.9	158

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55	Efficient and Anonymous Mobile User Authentication Protocol Using Self-Certified Public Key Cryptography for Multi-Server Architectures. IEEE Transactions on Information Forensics and Security, 2016, 11, 2052-2064.	6.9	157
56	Multimedia big data computing and Internet of Things applications: A taxonomy and process model. Journal of Network and Computer Applications, 2018, 124, 169-195.	9.1	156
57	Securing electronics healthcare records in Healthcare 4.0 : A biometric-based approach. Computers and Electrical Engineering, 2019, 76, 398-410.	4.8	156
58	Certificateless Public Key Authenticated Encryption With Keyword Search for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 3618-3627.	11.3	155
59	Container-as-a-Service at the Edge: Trade-off between Energy Efficiency and Service Availability at Fog Nano Data Centers. IEEE Wireless Communications, 2017, 24, 48-56.	9.0	154
60	Secure Biometric-Based Authentication Scheme Using Chebyshev Chaotic Map for Multi-Server Environment. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 824-839.	5.4	154
61	Authenticated key agreement scheme for fog-driven IoT healthcare system. Wireless Networks, 2019, 25, 4737-4750.	3.0	154
62	A systematic review on heterogeneous routing protocols for wireless sensor network. Journal of Network and Computer Applications, 2015, 53, 39-56.	9.1	150
63	Designing secure blockchain-based access control scheme in IoT-enabled Internet of Drones deployment. Computer Communications, 2020, 153, 229-249.	5.1	150
64	UAV-Empowered Edge Computing Environment for Cyber-Threat Detection in Smart Vehicles. IEEE Network, 2018, 32, 42-51.	6.9	148
65	Vehicular delay-tolerant networks for smart grid data management using mobile edge computing. , 2016, 54, 60-66.		147
66	Blockchain-based identity management systems: A review. Journal of Network and Computer Applications, 2020, 166, 102731.	9.1	147
67	Design of Secure and Lightweight Authentication Protocol for Wearable Devices Environment. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1310-1322.	6.3	145
68	Designing Secure Lightweight Blockchain-Enabled RFID-Based Authentication Protocol for Supply Chains in 5G Mobile Edge Computing Environment. IEEE Transactions on Industrial Informatics, 2020, 16, 7081-7093.	11.3	144
69	Blockchain-Envisioned Secure Data Delivery and Collection Scheme for 5G-Based IoT-Enabled Internet of Drones Environment. IEEE Transactions on Vehicular Technology, 2020, 69, 9097-9111.	6.3	143
70	An efficient authentication and key agreement scheme for multi-gateway wireless sensor networks in IoT deployment. Journal of Network and Computer Applications, 2017, 89, 72-85.	9.1	141
71	A user friendly mutual authentication and key agreement scheme for wireless sensor networks using chaotic maps. Future Generation Computer Systems, 2016, 63, 56-75.	7.5	140
72	Data Offloading in 5G-Enabled Software-Defined Vehicular Networks: A Stackelberg-Game-Based Approach. IEEE Communications Magazine, 2017, 55, 100-108.	6.1	140

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73	Blockchain data-based cloud data integrity protection mechanism. Future Generation Computer Systems, 2020, 102, 902-911.	7.5	140
74	Edge Computing-Based Security Framework for Big Data Analytics in VANETs. IEEE Network, 2019, 33, 72-81.	6.9	139
75	BinDaaS: Blockchain-Based Deep-Learning as-a-Service in Healthcare 4.0 Applications. IEEE Transactions on Network Science and Engineering, 2021, 8, 1242-1255.	6.4	138
76	BAKMP-IoMT: Design of Blockchain Enabled Authenticated Key Management Protocol for Internet of Medical Things Deployment. IEEE Access, 2020, 8, 95956-95977.	4.2	138
77	A secure and robust temporal credential-based three-factor user authentication scheme for wireless sensor networks. Peer-to-Peer Networking and Applications, 2016, 9, 223-244.	3.9	137
78	Lightweight and privacy-preserving RFID authentication scheme for distributed IoT infrastructure with secure localization services for smart city environment. Future Generation Computer Systems, 2018, 83, 629-637.	7.5	137
79	Designing Blockchain-Based Access Control Protocol in IoT-Enabled Smart-Grid System. IEEE Internet of Things Journal, 2021, 8, 5744-5761.	8.7	135
80	Fog Computing for Smart Grid Systems in the 5G Environment: Challenges and Solutions. IEEE Wireless Communications, 2019, 26, 47-53.	9.0	134
81	Software defined solutions for sensors in 6G/IoE. Computer Communications, 2020, 153, 42-47.	5.1	133
82	An Efficient and Provably Secure Authenticated Key Agreement Protocol for Fog-Based Vehicular Ad-Hoc Networks. IEEE Internet of Things Journal, 2019, 6, 8065-8075.	8.7	132
83	Machine Learning Models for Secure Data Analytics: A taxonomy and threat model. Computer Communications, 2020, 153, 406-440.	5.1	132
84	Secure Message Communication Protocol Among Vehicles in Smart City. IEEE Transactions on Vehicular Technology, 2018, 67, 4359-4373.	6.3	131
85	Taxonomy and analysis of security protocols for Internet of Things. Future Generation Computer Systems, 2018, 89, 110-125.	7.5	130
86	Smart Secure Sensing for IoT-Based Agriculture: Blockchain Perspective. IEEE Sensors Journal, 2021, 21, 17591-17607.	4.7	128
87	Deep learning models for traffic flow prediction in autonomous vehicles: A review, solutions, and challenges. Vehicular Communications, 2019, 20, 100184.	4.0	127
88	Efficient Privacy-Aware Authentication Scheme for Mobile Cloud Computing Services. IEEE Systems Journal, 2018, 12, 1621-1631.	4.6	126
89	Provably Secure Fine-Grained Data Access Control Over Multiple Cloud Servers in Mobile Cloud Computing Based Healthcare Applications. IEEE Transactions on Industrial Informatics, 2019, 15, 457-468.	11.3	126
90	Anonymous Lightweight Chaotic Map-Based Authenticated Key Agreement Protocol for Industrial Internet of Things. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 1133-1146.	5.4	126

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91	Design of a provably secure biometrics-based multi-cloud-server authentication scheme. Future Generation Computer Systems, 2017, 68, 320-330.	7.5	125
92	A Provably Secure and Efficient Identity-Based Anonymous Authentication Scheme for Mobile Edge Computing. IEEE Systems Journal, 2020, 14, 560-571.	4.6	125
93	HomeChain: A Blockchain-Based Secure Mutual Authentication System for Smart Homes. IEEE Internet of Things Journal, 2020, 7, 818-829.	8.7	124
94	Tactile-Internet-Based Telesurgery System for Healthcare 4.0: An Architecture, Research Challenges, and Future Directions. IEEE Network, 2019, 33, 22-29.	6.9	122
95	Blockchain-based security attack resilience schemes for autonomous vehicles in industry 4.0: A systematic review. Computers and Electrical Engineering, 2020, 86, 106717.	4.8	122
96	Provably Secure ECC-Based Device Access Control and Key Agreement Protocol for IoT Environment. IEEE Access, 2019, 7, 55382-55397.	4.2	121
97	Authentication in cloud-driven IoT-based big data environment: Survey and outlook. Journal of Systems Architecture, 2019, 97, 185-196.	4.3	120
98	A lightweight and secure two-factor authentication scheme for wireless body area networks in health-care IoT. Computer Networks, 2020, 177, 107333.	5.1	120
99	LSCSH: Lattice-Based Secure Cryptosystem for Smart Healthcare in Smart Cities Environment. IEEE Communications Magazine, 2018, 56, 24-32.	6.1	119
100	A Novel Authentication and Key Agreement Scheme for Implantable Medical Devices Deployment. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1299-1309.	6.3	119
101	Coordinated Power Control of Electric Vehicles for Grid Frequency Support: MILP-Based Hierarchical Control Design. IEEE Transactions on Smart Grid, 2019, 10, 3364-3373.	9.0	119
102	Security of Cryptocurrencies in blockchain technology: State-of-art, challenges and future prospects. Journal of Network and Computer Applications, 2020, 163, 102635.	9.1	118
103	A secure and effective biometric€based user authentication scheme for wireless sensor networks using smart card and fuzzy extractor. International Journal of Communication Systems, 2017, 30, e2933.	2.5	117
104	Secure Three-Factor User Authentication Scheme for Renewable-Energy-Based Smart Grid Environment. IEEE Transactions on Industrial Informatics, 2017, 13, 3144-3153.	11.3	116
105	SeDaTiVe: SDN-Enabled Deep Learning Architecture for Network Traffic Control in Vehicular Cyber-Physical Systems. IEEE Network, 2018, 32, 66-73.	6.9	116
106	EDL-COVID: Ensemble Deep Learning for COVID-19 Case Detection From Chest X-Ray Images. IEEE Transactions on Industrial Informatics, 2021, 17, 6539-6549.	11.3	115
107	A Deep Learning-based Cryptocurrency Price Prediction Scheme for Financial Institutions. Journal of Information Security and Applications, 2020, 55, 102583.	2.5	114
108	A Secure and Efficient Uniqueness-and-Anonymity-Preserving Remote User Authentication Scheme for Connected Health Care. Journal of Medical Systems, 2013, 37, 9948.	3.6	113

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109	Towards energy-aware fog-enabled cloud of things for healthcare. Computers and Electrical Engineering, 2018, 67, 58-69.	4.8	112
110	Tactile internet and its applications in 5G era: A comprehensive review. International Journal of Communication Systems, 2019, 32, e3981.	2.5	111
111	IoT-Based Solid Waste Management Solutions: A Survey. Journal of Sensor and Actuator Networks, 2019, 8, 5.	3.9	109
112	Robust Spammer Detection Using Collaborative Neural Network in Internet-of-Things Applications. IEEE Internet of Things Journal, 2021, 8, 9549-9558.	8.7	109
113	Collaborative trust aware intelligent intrusion detection in VANETs. Computers and Electrical Engineering, 2014, 40, 1981-1996.	4.8	107
114	Optimal Decision Making for Big Data Processing at Edge-Cloud Environment: An SDN Perspective. IEEE Transactions on Industrial Informatics, 2018, 14, 778-789.	11.3	107
115	Dynamic pricing techniques for Intelligent Transportation System in smart cities: A systematic review. Computer Communications, 2020, 150, 603-625.	5.1	107
116	Secure anonymous mutual authentication for star two-tier wireless body area networks. Computer Methods and Programs in Biomedicine, 2016, 135, 37-50.	4.7	106
117	Privacy-preserving data aggregation scheme against internal attackers in smart grids. Wireless Networks, 2016, 22, 491-502.	3.0	105
118	A Multi-Tenant Cloud-Based DC Nano Grid for Self-Sustained Smart Buildings in Smart Cities. , 2017, 55, 14-21.		105
119	Fog data analytics: A taxonomy and process model. Journal of Network and Computer Applications, 2019, 128, 90-104.	9.1	105
120	Government regulations in cyber security: Framework, standards and recommendations. Future Generation Computer Systems, 2019, 92, 178-188.	7.5	104
121	Blockchain and AI amalgamation for energy cloud management: Challenges, solutions, and future directions. Journal of Parallel and Distributed Computing, 2020, 143, 148-166.	4.1	104
122	Bayesian Coalition Game as-a-Service for Content Distribution in Internet of Vehicles. IEEE Internet of Things Journal, 2014, 1, 544-555.	8.7	103
123	A Provably-Secure Cross-Domain Handshake Scheme with Symptoms-Matching for Mobile Healthcare Social Network. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 633-645.	5.4	103
124	Intrusion Detection Protocols in Wireless Sensor Networks Integrated to Internet of Things Deployment: Survey and Future Challenges. IEEE Access, 2020, 8, 3343-3363.	4.2	103
125	Coalition Games for Spatio-Temporal Big Data in Internet of Vehicles Environment: A Comparative Analysis. IEEE Internet of Things Journal, 2015, 2, 310-320.	8.7	101
126	Efficient and Secure Anonymous Authentication With Location Privacy for IoT-Based WBANs. IEEE Transactions on Industrial Informatics, 2020, 16, 2603-2611.	11.3	101

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127	BlockSDN: Blockchain-as-a-Service for Software Defined Networking in Smart City Applications. IEEE Network, 2020, 34, 83-91.	6.9	101
128	A Smart Waste Management Solution Geared towards Citizens. Sensors, 2020, 20, 2380.	3.8	100
129	EEG-Based Pathology Detection for Home Health Monitoring. IEEE Journal on Selected Areas in Communications, 2021, 39, 603-610.	14.0	100
130	Network Service Chaining in Fog and Cloud Computing for the 5G Environment: Data Management and Security Challenges. , 2017, 55, 114-122.		99
131	BCPPA: A Blockchain-Based Conditional Privacy-Preserving Authentication Protocol for Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 7408-7420.	8.0	99
132	Stochastic Neural Networks for Cryptocurrency Price Prediction. IEEE Access, 2020, 8, 82804-82818.	4.2	99
133	Optimized Big Data Management across Multi-Cloud Data Centers: Software-Defined-Network-Based Analysis. , 2018, 56, 118-126.		98
134	Design and analysis of authenticated key agreement scheme in cloud-assisted cyber–physical systems. Future Generation Computer Systems, 2020, 108, 1267-1286.	7.5	98
135	A taxonomy of AI techniques for 6G communication networks. Computer Communications, 2020, 161, 279-303.	5.1	98
136	On the Design of Provably Secure Lightweight Remote User Authentication Scheme for Mobile Cloud Computing Services. IEEE Access, 2017, 5, 25808-25825.	4.2	97
137	Provably secure authenticated key agreement scheme for distributed mobile cloud computing services. Future Generation Computer Systems, 2017, 68, 74-88.	7.5	97
138	A Provably Secure and Lightweight Anonymous User Authenticated Session Key Exchange Scheme for Internet of Things Deployment. IEEE Internet of Things Journal, 2019, 6, 8739-8752.	8.7	97
139	Trust management in social Internet of Things: A taxonomy, open issues, and challenges. Computer Communications, 2020, 150, 13-46.	5.1	97
140	SAFE: SDN-Assisted Framework for Edge–Cloud Interplay in Secure Healthcare Ecosystem. IEEE Transactions on Industrial Informatics, 2019, 15, 469-480.	11.3	96
141	Certificateless-Signcryption-Based Three-Factor User Access Control Scheme for IoT Environment. IEEE Internet of Things Journal, 2020, 7, 3184-3197.	8.7	96
142	Energy-Aware Marine Predators Algorithm for Task Scheduling in IoT-Based Fog Computing Applications. IEEE Transactions on Industrial Informatics, 2021, 17, 5068-5076.	11.3	96
143	An advanced Internet of Thing based Security Alert System for Smart Home. , 2017, , .		95
144	HaBiTs: Blockchain-based Telesurgery Framework for Healthcare 4.0. , 2019, , .		95

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145	IoMT Malware Detection Approaches: Analysis and Research Challenges. IEEE Access, 2019, 7, 182459-182476.	4.2	95
146	A Review on Autonomous Vehicles: Progress, Methods and Challenges. Electronics (Switzerland), 2022, 11, 2162.	3.1	95
147	Secure clustering for efficient data dissemination in vehicular cyber–physical systems. Future Generation Computer Systems, 2016, 56, 476-492.	7.5	94
148	Intelligent Mobile Video Surveillance System as a Bayesian Coalition Game in Vehicular Sensor Networks: Learning Automata Approach. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 1148-1161.	8.0	93
149	A Lightweight Privacy-Preserving Authentication Protocol for VANETs. IEEE Systems Journal, 2020, 14, 3547-3557.	4.6	93
150	Tactile Internet for Smart Communities in 5G: An Insight for NOMA-Based Solutions. IEEE Transactions on Industrial Informatics, 2019, 15, 3104-3112.	11.3	92
151	A Novel UAV-Enabled Data Collection Scheme for Intelligent Transportation System Through UAV Speed Control. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2100-2110.	8.0	91
152	Smart Contract-Based Blockchain-Envisioned Authentication Scheme for Smart Farming. IEEE Internet of Things Journal, 2021, 8, 10792-10806.	8.7	91
153	Design of Lightweight Authentication and Key Agreement Protocol for Vehicular Ad Hoc Networks. IEEE Access, 2017, 5, 14966-14980.	4.2	90
154	A Comprehensive Review on Smart Decision Support Systems for Health Care. IEEE Systems Journal, 2019, 13, 3536-3545.	4.6	90
155	Collaborative Learning Automata-Based Routing for Rescue Operations in Dense Urban Regions Using Vehicular Sensor Networks. IEEE Systems Journal, 2015, 9, 1081-1090.	4.6	89
156	Bayesian Coalition Game for Contention-Aware Reliable Data Forwarding in Vehicular Mobile Cloud. Future Generation Computer Systems, 2015, 48, 60-72.	7.5	89
157	On the Design of Conditional Privacy Preserving Batch Verification-Based Authentication Scheme for Internet of Vehicles Deployment. IEEE Transactions on Vehicular Technology, 2020, 69, 5535-5548.	6.3	89
158	Blockchain-Envisioned UAV Communication Using 6G Networks: Open Issues, Use Cases, and Future Directions. IEEE Internet of Things Journal, 2021, 8, 5416-5441.	8.7	89
159	ALCA: agent learning–based clustering algorithm in vehicular ad hoc networks. Personal and Ubiquitous Computing, 2013, 17, 1683-1692.	2.8	88
160	Blockchain Technology Toward Green IoT: Opportunities and Challenges. IEEE Network, 2020, 34, 263-269.	6.9	88
161	An intelligent approach for building a secure decentralized public key infrastructure in VANET. Journal of Computer and System Sciences, 2015, 81, 1042-1058.	1.2	87
162	A Systematic Review on NOMA Variants for 5G and Beyond. IEEE Access, 2021, 9, 85573-85644.	4.2	86

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164	Provably secure user authentication and key agreement scheme for wireless sensor networks. Security and Communication Networks, 2016, 9, 3670-3687.	1.5	85
165	Secure Authentication Scheme for Medicine Anti-Counterfeiting System in IoT Environment. IEEE Internet of Things Journal, 2017, 4, 1634-1646.	8.7	85
166	Consumption-Aware Data Analytical Demand Response Scheme for Peak Load Reduction in Smart Grid. IEEE Transactions on Industrial Electronics, 2018, 65, 8993-9004.	7.9	85
167	Renewable Energy-Based Multi-Indexed Job Classification and Container Management Scheme for Sustainability of Cloud Data Centers. IEEE Transactions on Industrial Informatics, 2019, 15, 2947-2957.	11.3	85
168	A lifetime extended multi-levels heterogeneous routing protocol for wireless sensor networks. Telecommunication Systems, 2015, 59, 43-62.	2.5	84
169	Blockchain-Based Mutual-Healing Group Key Distribution Scheme in Unmanned Aerial Vehicles Ad-Hoc Network. IEEE Transactions on Vehicular Technology, 2019, 68, 11309-11322.	6.3	84
170	GUARDIAN: Blockchain-Based Secure Demand Response Management in Smart Grid System. IEEE Transactions on Services Computing, 2020, 13, 613-624.	4.6	84
171	A taxonomy of blockchain-enabled softwarization for secure UAV network. Computer Communications, 2020, 161, 304-323.	5.1	84
172	BloHosT: Blockchain Enabled Smart Tourism and Hospitality Management. , 2019, , .		83
173	Facial Sentiment Analysis Using AI Techniques: State-of-the-Art, Taxonomies, and Challenges. IEEE Access, 2020, 8, 90495-90519.	4.2	83
174	Analyzing the Effectiveness and Contribution of Each Axis of Tri-Axial Accelerometer Sensor for Accurate Activity Recognition. Sensors, 2020, 20, 2216.	3.8	83
175	Automated DDOS attack detection in software defined networking. Journal of Network and Computer Applications, 2021, 187, 103108.	9.1	83
176	An efficient multiâ€gatewayâ€based threeâ€factor user authentication and key agreement scheme in hierarchical wireless sensor networks. Security and Communication Networks, 2016, 9, 2070-2092.	1.5	82
177	Lightweight Mutual Authentication Protocol for V2G Using Physical Unclonable Function. IEEE Transactions on Vehicular Technology, 2020, 69, 7234-7246.	6.3	82
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