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	Fog Computing for 5G-Enabled Tactile Internet: Research Issues, Challenges, and Future Research Directions. Mobile Networks and Applications, 2023, 28, 690-717.	3.3	22
2	MADP-IIME: malware attack detection protocol in IoT-enabled industrial multimedia environment using machine learning approach. Multimedia Systems, 2023, 29, 1785-1797.	4.7	5
3	Provably secure signature-based anonymous user authentication protocol in an Internet of Things-enabled intelligent precision agricultural environment. Concurrency Computation Practice and Experience, 2023, 35, e6187.	2.2	10
4	A CNN-based scheme for COVID-19 detection with emergency services provisions using an optimal path planning. Multimedia Systems, 2023, 29, 1683-1697.	4.7	7
5	SecGreen: Secrecy Ensured Power Optimization Scheme for Software-Defined Connected IoV. IEEE Transactions on Mobile Computing, 2023, 22, 2370-2386.	5.8	3
6	Accurate Detection of IoT Sensor Behaviors in Legitimate, Faulty and Compromised Scenarios. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 288-300.	5.4	9
7	AKN-FGD: Adaptive Kohonen Network Based Fine-Grained Detection of LDoS Attacks. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 273-287.	5.4	7
8	Security enhancement in cellular networks employing D2D friendly jammer for V2V communication. Cluster Computing, 2023, 26, 865-878.	5.0	1
9	Security in IoT-enabled smart agriculture: architecture, security solutions and challenges. Cluster Computing, 2023, 26, 879-902.	5.0	35
10	On the design of an AI-driven secure communication scheme for internet of medical things environment. Digital Communications and Networks, 2023, 9, 1080-1089.	5.0	6
11	An Efficient Vehicle-Assisted Aggregate Authentication Scheme for Infrastructure-Less Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15590-15600.	8.0	15
12	FHC-NDS: Fuzzy Hierarchical Clustering of Multiple Nominal Data Streams. IEEE Transactions on Fuzzy Systems, 2023, 31, 786-798.	9.8	1
13	SanJeeVni: Secure UAV-Envisioned Massive Vaccine Distribution for COVID-19 Underlying 6G Network. IEEE Sensors Journal, 2023, 23, 955-968.	4.7	8
14	Hash-balanced binary tree-based public auditing in vehicular edge computing and networks. International Journal of Communication Systems, 2022, 35, e4134.	2.5	3
15	EDCSuS: Sustainable Edge Data Centers as a Service in SDN-Enabled Vehicular Environment. IEEE Transactions on Sustainable Computing, 2022, 7, 263-276.	3.1	33
16	A Multi-Objective Optimization Scheme for Job Scheduling in Sustainable Cloud Data Centers. IEEE Transactions on Cloud Computing, 2022, 10, 172-186.	4.4	21
17	A Reliable Data-Transmission Mechanism Using Blockchain in Edge Computing Scenarios. IEEE Internet of Things Journal, 2022, 9, 14228-14236.	8.7	28
18	Blockchain for precision irrigation: Opportunities and challenges. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4059.	3.9	36

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19	Data dimensionality reduction techniques for Industry 4.0: Research results, challenges, and future research directions. Software - Practice and Experience, 2022, 52, 658-688.	3.6	17
20	Designing Secure and Efficient Biometric-Based Access Mechanism for Cloud Services. IEEE Transactions on Cloud Computing, 2022, 10, 749-761.	4.4	5
21	Human-in-the-Loop-Aided Privacy-Preserving Scheme for Smart Healthcare. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 6-15.	4.9	22
22	Cybertwin-Driven Resource Provisioning for IoE Applications at 6G-Enabled Edge Networks. IEEE Transactions on Industrial Informatics, 2022, 18, 4850-4858.	11.3	16
23	A Collaborative Computational Offloading Strategy for Latency-Sensitive Applications in Fog Networks. IEEE Internet of Things Journal, 2022, 9, 4565-4572.	8.7	15
24	PIN Inference Attack: A Threat to Mobile Security and Smartphone-Controlled Robots. IEEE Sensors Journal, 2022, 22, 17475-17482.	4.7	4
25	Space-Air-Ground Integrated Multi-Domain Network Resource Orchestration Based on Virtual Network Architecture: A DRL Method. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2798-2808.	8.0	40
26	Dynamic Task Placement for Deadline-Aware IoT Applications in Federated Fog Networks. IEEE Internet of Things Journal, 2022, 9, 1469-1478.	8.7	24
27	Third Eye: An Intelligent and Secure Route Planning Scheme for Critical Services Provisions in Internet of Vehicles Environment. IEEE Systems Journal, 2022, 16, 1217-1227.	4.6	21
28	Internet of Things Framework for Oxygen Saturation Monitoring in COVID-19 Environment. IEEE Internet of Things Journal, 2022, 9, 3631-3641.	8.7	14
29	Intelligent Security Performance Prediction for IoT-Enabled Healthcare Networks Using an Improved CNN. IEEE Transactions on Industrial Informatics, 2022, 18, 2063-2074.	11.3	32
30	A Flexible Permission Ascription (FPA)-Based Blockchain Framework for Peer-to-Peer Energy Trading With Performance Evaluation. IEEE Transactions on Industrial Informatics, 2022, 18, 2465-2475.	11.3	27
31	Deep Reinforcement Learning-Based Traffic Light Scheduling Framework for SDN-Enabled Smart Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2411-2421.	8.0	20
32	Bushfire Risk Detection Using Internet of Things: An Application Scenario. IEEE Internet of Things Journal, 2022, 9, 5266-5274.	8.7	7
33	Integrating Multihub Driven Attention Mechanism and Big Data Analytics for Virtual Representation of Visual Scenes. IEEE Transactions on Industrial Informatics, 2022, 18, 1435-1444.	11.3	5
34	BC-EdgeFL: A Defensive Transmission Model Based on Blockchain-Assisted Reinforced Federated Learning in IIoT Environment. IEEE Transactions on Industrial Informatics, 2022, 18, 3551-3561.	11.3	22
35	Authenticated Key Agreement Scheme With User Anonymity and Untraceability for 5G-Enabled Softwarized Industrial Cyber-Physical Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2316-2330.	8.0	47
36	A Privacy-Preserving and Untraceable Group Data Sharing Scheme in Cloud Computing. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2198-2210.	5.4	46

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37	Access Control Protocol for Battlefield Surveillance in Drone-Assisted IoT Environment. IEEE Internet of Things Journal, 2022, 9, 2708-2721.	8.7	36
38	ISHU: Interference Reduction Scheme for D2D Mobile Groups Using Uplink NOMA. IEEE Transactions on Mobile Computing, 2022, 21, 3208-3224.	5.8	19
39	A Security- and Privacy-Preserving Approach Based on Data Disturbance for Collaborative Edge Computing in Social IoT Systems. IEEE Transactions on Computational Social Systems, 2022, 9, 97-108.	4.4	28
40	Toward Tailored Resource Allocation of Slices in 6G Networks With Softwarization and Virtualization. IEEE Internet of Things Journal, 2022, 9, 6623-6637.	8.7	38
41	*VaCoChain:* Blockchain-Based 5G-Assisted UAV Vaccine Distribution Scheme for Future Pandemics. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1997-2007.	6.3	39
42	A taxonomy of energy optimization techniques for smart cities: Architecture and future directions. Expert Systems, 2022, 39, e12703.	4.5	17
43	Fuzzy Logic in Surveillance Big Video Data Analysis. ACM Computing Surveys, 2022, 54, 1-33.	23.0	20
44	Fusion of AI techniques to tackle COVID-19 pandemic: models, incidence rates, and future trends. Multimedia Systems, 2022, 28, 1189-1222.	4.7	10
45	EVBlocks: A Blockchain-Based Secure Energy Trading Scheme for Electric Vehicles underlying 5G-V2X Ecosystems. Wireless Personal Communications, 2022, 127, 1943-1983.	2.7	11
46	B-IoMV: Blockchain-based onion routing protocol for D2D communication in an IoMV environment beyond 5G. Vehicular Communications, 2022, 33, 100401.	4.0	17
47	Enhancement of image contrast using Selfish Herd Optimizer. Multimedia Tools and Applications, 2022, 81, 637-657.	3.9	5
48	Towards sustainable smart cities: A secure and scalable trading system for residential homes using blockchain and artificial intelligence. Sustainable Cities and Society, 2022, 76, 103371.	10.4	26
49	Private blockchain-envisioned drones-assisted authentication scheme in IoT-enabled agricultural environment. Computer Standards and Interfaces, 2022, 80, 103567.	5.4	54
50	QoSâ€"aware Mesh-based Multicast Routing Protocols in Edge Ad Hoc Networks: Concepts and Challenges. ACM Transactions on Internet Technology, 2022, 22, 1-27.	4.4	10
51	P2SF-IoV: A Privacy-Preservation-Based Secured Framework for Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 22571-22582.	8.0	35
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53	An Efficient Privacy-Preserving Authenticated Key Establishment Protocol for Health Monitoring in Industrial Cyberâ€"Physical Systems. IEEE Internet of Things Journal, 2022, 9, 5142-5149.	8.7	16
54	Dynamic Virtual Network Embedding Algorithm Based on Graph Convolution Neural Network and Reinforcement Learning. IEEE Internet of Things Journal, 2022, 9, 9389-9398.	8.7	33

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55	Designing Fine-Grained Access Control for Software-Defined Networks Using Private Blockchain. IEEE Internet of Things Journal, 2022, 9, 1542-1559.	8.7	22
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57	AI-Envisioned Blockchain-Enabled Signature-Based Key Management Scheme for Industrial Cyberâ€"Physical Systems. IEEE Internet of Things Journal, 2022, 9, 6374-6388.	8.7	18
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63	PFLUA-DIoT: A Pairing Free Lightweight and Unlinkable User Access Control Scheme for Distributed IoT Environments. IEEE Systems Journal, 2022, 16, 309-316.	4.6	26
64	An Effective Probabilistic Technique for DDoS Detection in OpenFlow Controller. IEEE Systems Journal, 2022, 16, 1345-1354.	4.6	10
65	IoT Network Traffic Classification Using Machine Learning Algorithms: An Experimental Analysis. IEEE Internet of Things Journal, 2022, 9, 989-1008.	8.7	38
66	A Taxonomy of Multimedia-based Graphical User Authentication for Green Internet of Things. ACM Transactions on Internet Technology, 2022, 22, 1-28.	4.4	2
67	Integrated Blockchain and Cloud Computing Systems: A Systematic Survey, Solutions, and Challenges. ACM Computing Surveys, 2022, 54, 1-36.	23.0	16
68	Intelligent 3D Objects Classification for Vehicular Ad Hoc Network Based on Lidar and Deep Learning Approaches. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 19807-19816.	8.0	2
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71	Diverse Analysis of Data Mining and Machine Learning Algorithms to Secure Computer Network. Wireless Personal Communications, 2022, 124, 1033-1059.	2.7	5
72	QoS Aware Uplink Scheduling for M2M Communication in LTE/LTE-A Network: A Game Theoretic Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 4156-4170.	6.3	4

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76	PETS: P2P Energy Trading Scheduling Scheme for Electric Vehicles in Smart Grid Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 14361-14374.	8.0	10
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79	Cybertwin-Driven Federated Learning Based Personalized Service Provision for 6G-V2X. IEEE Transactions on Vehicular Technology, 2022, 71, 4632-4641.	6.3	14
80	BUAKA-CS: Blockchain-enabled user authentication and key agreement scheme for crowdsourcing system. Journal of Systems Architecture, 2022, 123, 102370.	4.3	14
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87	Coalition Games for Performance Evaluation in 5G and Beyond Networks: A Survey. IEEE Access, 2022, 10, 15393-15420.	4.2	5
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94	Space-Air-Ground Integrated Network Resource Allocation Based on Service Function Chain. IEEE Transactions on Vehicular Technology, 2022, 71, 7730-7738.	6.3	17
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99	ACM-SH: An Efficient Access Control and Key Establishment Mechanism for Sustainable Smart Healthcare. Sustainability, 2022, 14, 4661.	3.2	5
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102	A detailed survey of denial of service for IoT and multimedia systems: Past, present and futuristic development. Multimedia Tools and Applications, 2022, 81, 19879-19944.	3.9	8
103	6Blocks: 6G-enabled trust management scheme for decentralized autonomous vehicles. Computer Communications, 2022, 191, 53-68.	5.1	14
104	Security in <scp>IoMT</scp>â€driven smart healthcare: A comprehensive review and open challenges. Security and Privacy, 2022, 5, .	2.7	10
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106	ASCP-IoMT: AI-Enabled Lightweight Secure Communication Protocol for Internet of Medical Things. IEEE Access, 2022, 10, 57990-58004.	4.2	24
107	A Provably Secure Mobile User Authentication Scheme for Big Data Collection in IoT-Enabled Maritime Intelligent Transportation System. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-11.	8.0	5
108	MB-MaaS: Mobile Blockchain-based Mining-as-a-Service for IIoT environments. Journal of Parallel and Distributed Computing, 2022, 168, 1-16.	4.1	6

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109	Secure cloudâ€based data storage scheme using postquantum integer latticesâ€based signcryption for IoT applications. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	3.9	1
110	Performance Evaluation of Cooperative OMA and NOMA Systems in 6G Deployment Scenarios. Sensors, 2022, 22, 3986.	3.8	10
111	BDESF-ITS: Blockchain-Based Secure Data Exchange and Storage Framework for Intelligent Transportation System. , 2022, , .		2
112	Learning Based and Physical-layer Assisted Secure Computation Offloading in Vehicular Spectrum Sharing Networks. , 2022, , .		3
113	Secrecy Rate Maximization for THz-Enabled Femto Edge Users using Deep Reinforcement Learning in 6G. , 2022, , .		9
114	Big data dimensionality reduction techniques in IoT: review, applications and open research challenges. Cluster Computing, 2022, 25, 4027-4049.	5.0	11
115	Physical layer security using beamforming techniques for 5G and beyond networks: A systematic review. Physical Communication, 2022, 54, 101791.	2.1	13
116	Survivable virtual network embedding algorithm considering multiple node failure in IIoT environment. Journal of Network and Computer Applications, 2022, 205, 103437.	9.1	4
117	Guest Editorial: Special SectionÂon Edge Intelligence for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2022, , 1-4.	11.3	0
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122	A Big Data Approach for Demand Response Management in Smart Grid Using the Prophet Model. Electronics (Switzerland), 2022, 11, 2179.	3.1	2
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124	A secure and lightweight anonymous mutual authentication scheme for wearable devices in Medical Internet of Things. Journal of Information Security and Applications, 2022, 68, 103259.	2.5	5
125	Lightweight Searchable Public-Key Encryption with Forward Privacy over IIoT Outsourced Data. IEEE Transactions on Emerging Topics in Computing, 2021, 9, 1753-1764.	4.6	38
126	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

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127	Energy-Delay Tradeoff Scheme for NOMA-Based D2D Groups With WPCNs. IEEE Systems Journal, 2021, 15, 4768-4779.	4.6	15
128	Image watermarking using soft computing techniques: A comprehensive survey. Multimedia Tools and Applications, 2021, 80, 30367-30398.	3.9	43
129	A Blockchain-Based Proxy Re-Encryption With Equality Test for Vehicular Communication Systems. IEEE Transactions on Network Science and Engineering, 2021, 8, 2048-2059.	6.4	22
130	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
131	A Novel Three-Factor Authentication Protocol for Wireless Sensor Networks With IoT Notion. IEEE Systems Journal, 2021, 15, 1120-1129.	4.6	68
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