

Vinay Chamola, Senior Member, Ieee

List of Publications by Citations

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107
papers

2,830
citations

24
h-index

50
g-index

122
ext. papers

4,225
ext. citations

5.7
avg, IF

6.6
L-index

#	Paper	IF	Citations
107	A Comprehensive Review of the COVID-19 Pandemic and the Role of IoT, Drones, AI, Blockchain, and 5G in Managing its Impact. <i>IEEE Access</i> , 2020 , 8, 90225-90265	3.5	451
106	A Survey on IoT Security: Application Areas, Security Threats, and Solution Architectures. <i>IEEE Access</i> , 2019 , 7, 82721-82743	3.5	414
105	Blockchain Applications for Industry 4.0 and Industrial IoT: A Review. <i>IEEE Access</i> , 2019 , 7, 176935-176951	3.5	141
104	Blockchain for Internet of Energy management: Review, solutions, and challenges. <i>Computer Communications</i> , 2020 , 151, 395-418	5.1	111
103	Consumer IoT: Security Vulnerability Case Studies and Solutions. <i>IEEE Consumer Electronics Magazine</i> , 2020 , 9, 17-25	3.2	107
102	Blockchain in Smart Grids: A Review on Different Use Cases. <i>Sensors</i> , 2019 , 19,	3.8	101
101	A Blockchain-Based Framework for Lightweight Data Sharing and Energy Trading in V2G Network. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 5799-5812	6.8	83
100	Solar powered cellular base stations: current scenario, issues and proposed solutions 2016 , 54, 108-114		74
99	Applications of blockchain in unmanned aerial vehicles: A review. <i>Vehicular Communications</i> , 2020 , 23, 100249	5.7	73
98	Scheduling drone charging for multi-drone network based on consensus time-stamp and game theory. <i>Computer Communications</i> , 2020 , 149, 51-61	5.1	55
97	A Comprehensive Review of Unmanned Aerial Vehicle Attacks and Neutralization Techniques. <i>Ad Hoc Networks</i> , 2021 , 111, 102324	4.8	49
96	SecAuthUAV: A Novel Authentication Scheme for UAV-Ground Station and UAV-UAV Communication. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 15068-15077	6.8	48
95	Lightweight Mutual Authentication Protocol for V2G Using Physical Unclonable Function. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7234-7246	6.8	46
94	A Distributed Framework for Energy Trading Between UAVs and Charging Stations for Critical Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 5391-5402	6.8	42
93	Industrial Control Systems: Cyberattack trends and countermeasures. <i>Computer Communications</i> , 2020 , 155, 1-8	5.1	41
92	DAGIoV: A Framework for Vehicle to Vehicle Communication Using Directed Acyclic Graph and Game Theory. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 4182-4191	6.8	36
91	PARTH: A two-stage lightweight mutual authentication protocol for UAV surveillance networks. <i>Computer Communications</i> , 2020 , 160, 81-90	5.1	36

90	Brain-Computer Interface-Based Humanoid Control: A Review. <i>Sensors</i> , 2020 , 20,	3.8	31
89	A Review on the Role of Machine Learning in Enabling IoT Based Healthcare Applications. <i>IEEE Access</i> , 2021 , 9, 38859-38890	3.5	31
88	Blockchain for 5G: A Prelude to Future Telecommunication. <i>IEEE Network</i> , 2020 , 34, 106-113	11.4	30
87	A Survey on Supply Chain Security: Application Areas, Security Threats, and Solution Architectures. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 6222-6246	10.7	30
86	Delay Aware Resource Management for Grid Energy Savings in Green Cellular Base Stations With Hybrid Power Supplies. <i>IEEE Transactions on Communications</i> , 2017 , 65, 1092-1104	6.9	28
85	Green Energy and Delay Aware Downlink Power Control and User Association for Off-Grid Solar-Powered Base Stations. <i>IEEE Systems Journal</i> , 2018 , 12, 2622-2633	4.3	26
84	An optimal delay aware task assignment scheme for wireless SDN networked edge cloudlets. <i>Future Generation Computer Systems</i> , 2020 , 102, 862-875	7.5	26
83	Deep3DSCan: Deep residual network and morphological descriptor based framework for lung cancer classification and 3D segmentation. <i>IET Image Processing</i> , 2020 , 14, 1240-1247	1.7	23
82	HARCI: A Two-Way Authentication Protocol for Three Entity Healthcare IoT Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2021 , 39, 361-369	14.2	23
81	A survey on the role of Internet of Things for adopting and promoting Agriculture 4.0. <i>Journal of Network and Computer Applications</i> , 2021 , 187, 103107	7.9	23
80	A Parking Slot Allocation Framework Based on Virtual Voting and Adaptive Pricing Algorithm. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 5945-5957	6.8	22
79	BlockCom: A Blockchain Based Commerce Model for Smart Communities using Auction Mechanism 2019 ,		22
78	Traffic Jam Probability Estimation Based on Blockchain and Deep Neural Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 3919-3928	6.1	22
77	AgriSegNet: Deep Aerial Semantic Segmentation Framework for IoT-Assisted Precision Agriculture. <i>IEEE Sensors Journal</i> , 2021 , 21, 17581-17590	4	22
76	CB-CAS: Certificate-Based Efficient Signature Scheme With Compact Aggregation for Industrial Internet of Things Environment. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 2563-2572	10.7	21
75	Computation Offloading for Vehicular Environments: A Survey. <i>IEEE Access</i> , 2020 , 8, 198214-198243	3.5	21
74	2017 ,		19
73	A mobile data offloading framework based on a combination of blockchain and virtual voting. <i>Software - Practice and Experience</i> , 2020 ,	2.5	19

72	Power Outage Estimation and Resource Dimensioning for Solar Powered Cellular Base Stations. <i>IEEE Transactions on Communications</i> , 2016 , 64, 5278-5289	6.9	19
71	Resource provisioning and dimensioning for solar powered cellular base stations 2014 ,		17
70	Fast, Reliable, and Secure Drone Communication: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 1-1	37.1	17
69	Disaster and Pandemic Management Using Machine Learning: A Survey. <i>IEEE Internet of Things Journal</i> , 2020 , 1-1	10.7	16
68	BitFund: A blockchain-based crowd funding platform for future smart and connected nation. <i>Sustainable Cities and Society</i> , 2020 , 60, 102145	10.1	16
67	Security issues in implantable medical devices: Fact or fiction?. <i>Sustainable Cities and Society</i> , 2021 , 66, 102552	10.1	16
66	AI-enabled remote monitoring of vital signs for COVID-19: methods, prospects and challenges. <i>Computing (Vienna/New York)</i> ,1	2.2	15
65	A Multistate Markov Model for Dimensioning Solar Powered Cellular Base Stations. <i>IEEE Transactions on Sustainable Energy</i> , 2015 , 6, 1650-1652	8.2	14
64	A Lightweight Authentication and Attestation Scheme for In-Transit Vehicles in IoV Scenario. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14188-14197	6.8	14
63	Smart Stock Exchange Market: A Secure Predictive Decentralized Model 2019 ,		14
62	DCNN-GA: A Deep Neural Net Architecture for Navigation of UAV in Indoor Environment. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 4448-4460	10.7	14
61	ReViewNet: A Fast and Resource Optimized Network for Enabling Safe Autonomous Driving in Hazy Weather Conditions. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 4256-4266	6.1	14
60	Role of machine learning and deep learning in securing 5G-driven industrial IoT applications. <i>Ad Hoc Networks</i> , 2021 , 123, 102685	4.8	14
59	An Energy and Delay Aware Downlink Power Control Strategy for Solar Powered Base Stations. <i>IEEE Communications Letters</i> , 2016 , 20, 954-957	3.8	13
58	An IoT and Edge Computing Based Framework for Charge Scheduling and EV Selection in V2G Systems. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 10569-10580	6.8	13
57	A review on Virtual Reality and Augmented Reality use-cases of Brain Computer Interface based applications for smart cities. <i>Microprocessors and Microsystems</i> , 2022 , 88, 104392	2.4	12
56	Artificial Intelligence (AI)-Empowered Intrusion Detection Architecture for the Internet of Vehicles. <i>IEEE Wireless Communications</i> , 2021 , 28, 144-149	13.4	12
55	RAMA: Real-Time Automobile Mutual Authentication Protocol Using PUF 2020 ,		11

54	Outage estimation for solar powered cellular base stations 2015 ,		11
53	IoMT and DNN-Enabled Drone-Assisted Covid-19 Screening and Detection Framework for Rural Areas. <i>IEEE Internet of Things Magazine</i> , 2021 , 4, 4-9	3.5	11
52	Industrial Internet of Things (IIoT) Applications of Edge and Fog Computing: A Review and Future Directions. <i>Advances in Information Security</i> , 2021 , 293-325	0.7	11
51	Advancing Remote Healthcare using Humanoid and Affective Systems. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	10
50	Machine Learning Assisted Security and Privacy Provisioning for Edge Computing: A Survey. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	10
49	E-SATS: An Efficient and Simple Time Synchronization Protocol for Cluster- Based Wireless Sensor Networks. <i>IEEE Sensors Journal</i> , 2019 , 19, 10144-10156	4	9
48	FPGA for 5G: Re-configurable Hardware for Next Generation Communication. <i>IEEE Wireless Communications</i> , 2020 , 27, 140-147	13.4	9
47	A Comprehensive Survey on the Applications of Blockchain for Securing Vehicular Networks. <i>IEEE Communications Surveys and Tutorials</i> , 2022 , 1-1	37.1	9
46	Secure Lending: Blockchain and Prospect Theory-Based Decentralized Credit Scoring Model. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 2566-2575	4.9	8
45	A Blockchain and Edge-Computing-Based Secure Framework for Government Tender Allocation. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 2409-2418	10.7	8
44	Present landscape of quantum computing. <i>IET Quantum Communication</i> , 2020 , 1, 42-48	3.2	8
43	A Framework for Secure Vehicular Network using Advanced Blockchain 2020 ,		8
42	Information security in the post quantum era for 5G and beyond networks: Threats to existing cryptography, and post-quantum cryptography. <i>Computer Communications</i> , 2021 , 176, 99-118	5.1	7
41	Notice of Retraction: Electromagnetic Radiation Due to Cellular, Wi-Fi and Bluetooth Technologies: How Safe Are We?. <i>IEEE Access</i> , 2020 , 8, 42980-43000	3.5	6
40	Securing the Internet of Vehicles: A Deep Learning-Based Classification Framework. <i>IEEE Networking Letters</i> , 2021 , 3, 94-97	2.8	6
39	Smart water conservation through a machine learning and blockchain-enabled decentralized edge computing network. <i>Applied Soft Computing Journal</i> , 2021 , 106, 107274	7.5	6
38	Security in IoT-enabled smart agriculture: architecture, security solutions and challenges. <i>Cluster Computing</i> ,1	2.1	6
37	Drone-MAP: A Novel Authentication Scheme for Drone-Assisted 5G Networks 2021 ,		5

36	A blockchain and deep neural networks-based secure framework for enhanced crop protection. <i>Ad Hoc Networks</i> , 2021 , 119, 102537	4.8	5
35	Edge Computing and Deep Learning Enabled Secure Multitier Network for Internet of Vehicles. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 14787-14796	10.7	5
34	5G network slice for digital real-time healthcare system powered by network data analytics 2021 , 1, 14-14		4
33	Forthcoming applications of quantum computing: peeking into the future. <i>IET Quantum Communication</i> , 2020 , 1, 35-41	3.2	4
32	Network Slicing for 5G with UE State Based Allocation and Blockchain Approach. <i>IEEE Network</i> , 2021 , 35, 184-190	11.4	4
31	A Survey of Energy and Spectrum Harvesting Technologies and Protocols for Next Generation Wireless Networks. <i>IEEE Access</i> , 2021 , 9, 1737-1769	3.5	4
30	DeepADV: A Deep Neural Network Framework for Anomaly Detection in VANETs. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	4
29	Energy and Latency Aware Resource Management for Solar Powered Cellular Networks. <i>IEEE Network</i> , 2020 , 34, 246-253	11.4	3
28	A machine learning and blockchain based secure and cost-effective framework for minor medical consultations. <i>Sustainable Computing: Informatics and Systems</i> , 2022 , 35, 100651	3	3
27	NovelADS: A Novel Anomaly Detection System for Intra-Vehicular Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-11	6.1	3
26	Deep Neural Networks for Securing IoT Enabled Vehicular Ad-Hoc Networks 2021 ,		3
25	Framework for determining the suitability of blockchain: Criteria and issues to consider. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021 , 32, e4334	1.9	3
24	ISDNet: AI-enabled Instance Segmentation of Aerial Scenes for Smart Cities. <i>ACM Transactions on Internet Technology</i> , 2021 , 21, 1-18	3.8	3
23	Privacy-Preserving and Incentivized Contact Tracing for COVID-19 Using Blockchain. <i>IEEE Internet of Things Magazine</i> , 2021 , 4, 72-79	3.5	3
22	A blockchain-based framework for energy trading between solar powered base stations and grid 2020 ,		2
21	A Blockchain and Machine Learning based Framework for Efficient Health Insurance Management 2021 ,		2
20	Battery lifetime estimation for energy efficient telecommunication networks in smart cities. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 46, 101205	4.7	2
19	Artificial intelligence-assisted blockchain-based framework for smart and secure EMR management.. <i>Neural Computing and Applications</i> , 2022 , 1-11	4.8	2

18	SHOTS: Scalable Secure Hardware Based Authentication-Attestation Protocol Using Optimal Trajectory in UAV Swarms. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	2
17	A testbed validated simple time synchronization protocol for clustered wireless sensor networks for IoT. <i>Journal of Intelligent and Fuzzy Systems</i> , 2019 , 36, 4531-4543	1.6	1
16	DroneSegNet: AI-driven Robust Aerial Semantic Segmentation for IoT Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	1
15	UAV SECaaS: Game-Theoretic Formulation for Security as a Service in UAV Swarms. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3	1
14	A Blockchain based Framework for Secure Data Offloading in Tactile Internet Environment 2020 ,		1
13	A survey on computation resource allocation in IoT enabled vehicular edge computing. <i>Complex & Intelligent Systems</i> ,1	7.1	1
12	Hardware validated efficient and simple Time Synchronization protocol for clustered WSN 2016 ,		1
11	Enabling Cost-Effective and Secure Minor Medical Teleconsultation Using Artificial Intelligence and Blockchain. <i>IEEE Internet of Things Magazine</i> , 2022 , 5, 80-84	3.5	1
10	LWCNN: a lightweight convolutional neural network for agricultural crop protection. <i>Multimedia Tools and Applications</i> ,1	2.5	0
9	A Game Theoretic Analysis for Power Management and Cost Optimization of Green Base Stations in 5G and Beyond Communication Networks. <i>IEEE Transactions on Network and Service Management</i> , 2022 , 1-1	4.8	0
8	Police FIR Registration and Tracking Using Consortium Blockchain. <i>Algorithms for Intelligent Systems</i> , 2021 , 785-794	0.5	0
7	Toward Safer Vehicular Transit: Implementing Deep Learning on Single Channel EEG Systems for Microsleep Detection. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 1-10	6.1	0
6	Next generation stock exchange: Recurrent neural learning model for distributed ledger transactions. <i>Computer Networks</i> , 2021 , 193, 107998	5.4	0
5	Optimal Spectral Resource Allocation and Pricing for 5G and Beyond: A Game Theoretic Approach. <i>IEEE Networking Letters</i> , 2021 , 3, 119-123	2.8	0
4	Machine Learning on FPGA for Robust Si3N4-gate ISFET pH Sensor in Industrial IoT Applications. <i>IEEE Transactions on Industry Applications</i> , 2021 , 1-1	4.3	0
3	Correction to ReViewNet: A Fast and Resource Optimized Network for Enabling Safe Autonomous Driving in Hazy Weather Conditions <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 23, 2888-2888	6.1	0
2	Energy and latency aware mobile task assignment for green cloudlets. <i>Simulation Modelling Practice and Theory</i> , 2022 , 102531	3.9	0
1	Decentralized Renewable Resource Redistribution and Optimization for Beyond 5G Small Cell Base Stations: A Machine Learning Approach. <i>IEEE Systems Journal</i> , 2022 , 1-12	4.3	

