

Vinay Chamola, Senior Member, Ieee

List of Publications by Year in Descending Order

Source:

<https://exaly.com/author-pdf/5616583/vinay-chamola-senior-member-ieee-publications-by-year.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	DroneSegNet: AI-driven Robust Aerial Semantic Segmentation for IoT Applications. <i>IEEE Transactions on Vehicular Technology</i> , 2022 , 1-1	6.8	1
106	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
105	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	
104	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
103	NovelADS: A Novel Anomaly Detection System for Intra-Vehicular Networks. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022 , 1-11	6.1	3
102	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
101	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
100	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
99	Artificial intelligence-assisted blockchain-based framework for smart and secure EMR management. <i>Neural Computing and Applications</i> , 2022 , 1-11	4.8	2
98	Energy and latency aware mobile task assignment for green cloudlets. <i>Simulation Modelling Practice and Theory</i> , 2022 , 102531	3.9	0
97	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
96	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
95	5G network slice for digital real-time healthcare system powered by network data analytics 2021 , 1, 14-14		4
94	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
93	Police FIR Registration and Tracking Using Consortium Blockchain. <i>Algorithms for Intelligent Systems</i> , 2021 , 785-794	0.5	0
92	UAV SECaaS: Game-Theoretic Formulation for Security as a Service in UAV Swarms. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3	1
91	A Blockchain and Machine Learning based Framework for Efficient Health Insurance Management 2021 ,		2

90	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
89	Drone-MAP: A Novel Authentication Scheme for Drone-Assisted 5G Networks 2021 ,		5
88	Securing the Internet of Vehicles: A Deep Learning-Based Classification Framework. <i>IEEE Networking Letters</i> , 2021 , 3, 94-97	2.8	6
87	Artificial Intelligence (AI)-Empowered Intrusion Detection Architecture for the Internet of Vehicles. <i>IEEE Wireless Communications</i> , 2021 , 28, 144-149	13.4	12
86	Deep Neural Networks for Securing IoT Enabled Vehicular Ad-Hoc Networks 2021 ,		3
85	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
84	Next generation stock exchange: Recurrent neural learning model for distributed ledger transactions. <i>Computer Networks</i> , 2021 , 193, 107998	5.4	0
83	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
82	Security issues in implantable medical devices: Fact or fiction?. <i>Sustainable Cities and Society</i> , 2021 , 66, 102552	10.1	16
81	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
80	A Comprehensive Review of Unmanned Aerial Vehicle Attacks and Neutralization Techniques. <i>Ad Hoc Networks</i> , 2021 , 111, 102324	4.8	49
79	Network Slicing for 5G with UE State Based Allocation and Blockchain Approach. <i>IEEE Network</i> , 2021 , 35, 184-190	11.4	4
78	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
77	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
76	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
75	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
74	Advancing Remote Healthcare using Humanoid and Affective Systems. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	10
73	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

72	DeepADV: A Deep Neural Network Framework for Anomaly Detection in VANETs. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	4
71	Fast, Reliable, and Secure Drone Communication: A Comprehensive Survey. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 1-1	37.1	17
70	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
69	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
68	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
67	Battery lifetime estimation for energy efficient telecommunication networks in smart cities. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 46, 101205	4.7	2
66	A blockchain and deep neural networks-based secure framework for enhanced crop protection. <i>Ad Hoc Networks</i> , 2021 , 119, 102537	4.8	5
65	AgriSegNet: Deep Aerial Semantic Segmentation Framework for IoT-Assisted Precision Agriculture. <i>IEEE Sensors Journal</i> , 2021 , 21, 17581-17590	4	22
64	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
63	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
62	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
61	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
60	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
59	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
58	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
57	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
56	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
55	FPGA for 5G: Re-configurable Hardware for Next Generation Communication. <i>IEEE Wireless Communications</i> , 2020 , 27, 140-147	13.4	9

54	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
53	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
52	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
51	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
50	Energy and Latency Aware Resource Management for Solar Powered Cellular Networks. <i>IEEE Network</i> , 2020 , 34, 246-253	11.4	3
49	Brain-Computer Interface-Based Humanoid Control: A Review. <i>Sensors</i> , 2020 , 20,	3.8	31
48	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
47	RAMA: Real-Time Automobile Mutual Authentication Protocol Using PUF 2020 ,		11
46	Applications of blockchain in unmanned aerial vehicles: A review. <i>Vehicular Communications</i> , 2020 , 23, 100249	5.7	73
45	Lightweight Mutual Authentication Protocol for V2G Using Physical Unclonable Function. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 7234-7246	6.8	46
44	Blockchain for Internet of Energy management: Review, solutions, and challenges. <i>Computer Communications</i> , 2020 , 151, 395-418	5.1	111
43	A mobile data offloading framework based on a combination of blockchain and virtual voting. <i>Software - Practice and Experience</i> , 2020 ,	2.5	19
42	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
41	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
40	Consumer IoT: Security Vulnerability Case Studies and Solutions. <i>IEEE Consumer Electronics Magazine</i> , 2020 , 9, 17-25	3.2	107
39	Blockchain for 5G: A Prelude to Future Telecommunication. <i>IEEE Network</i> , 2020 , 34, 106-113	11.4	30
38	Industrial Control Systems: Cyberattack trends and countermeasures. <i>Computer Communications</i> , 2020 , 155, 1-8	5.1	41
37	Disaster and Pandemic Management Using Machine Learning: A Survey. <i>IEEE Internet of Things Journal</i> , 2020 , 1-1	10.7	16

36	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
35	A blockchain-based framework for energy trading between solar powered base stations and grid 2020 ,		2
34	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
33	PARTH: A two-stage lightweight mutual authentication protocol for UAV surveillance networks. <i>Computer Communications</i> , 2020 , 160, 81-90	5.1	36
32	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
31	Forthcoming applications of quantum computing: peeking into the future. <i>IET Quantum Communication</i> , 2020 , 1, 35-41	3.2	4
30	Present landscape of quantum computing. <i>IET Quantum Communication</i> , 2020 , 1, 42-48	3.2	8
29	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
28	A Blockchain based Framework for Secure Data Offloading in Tactile Internet Environment 2020 ,		1
27	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
26	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
25	A Framework for Secure Vehicular Network using Advanced Blockchain 2020 ,		8
24	Computation Offloading for Vehicular Environments: A Survey. <i>IEEE Access</i> , 2020 , 8, 198214-198243	3.5	21
23	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
22	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
21	A Survey on IoT Security: Application Areas, Security Threats, and Solution Architectures. <i>IEEE Access</i> , 2019 , 7, 82721-82743	3.5	414
20	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
19	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

18	BlockCom: A Blockchain Based Commerce Model for Smart Communities using Auction Mechanism 2019,		22
17	Blockchain in Smart Grids: A Review on Different Use Cases. <i>Sensors</i> , 2019 , 19,	3.8	101
16	Smart Stock Exchange Market: A Secure Predictive Decentralized Model 2019,		14
15	Blockchain Applications for Industry 4.0 and Industrial IoT: A Review. <i>IEEE Access</i> , 2019 , 7, 176935-176951,	3.5	141
14	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
13	2017,		19
12	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
11	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
10	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
9	Hardware validated efficient and simple Time Synchronization protocol for clustered WSN 2016,		1
8	Solar powered cellular base stations: current scenario, issues and proposed solutions 2016 , 54, 108-114		74
7	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
6	Outage estimation for solar powered cellular base stations 2015,		11
5	Resource provisioning and dimensioning for solar powered cellular base stations 2014,		17
4	LWCNN: a lightweight convolutional neural network for agricultural crop protection. <i>Multimedia Tools and Applications</i> ,1	2.5	0
3	AI-enabled remote monitoring of vital signs for COVID-19: methods, prospects and challenges. <i>Computing (Vienna/New York)</i> ,1	2.2	15
2	A survey on computation resource allocation in IoT enabled vehicular edge computing. <i>Complex & Intelligent Systems</i> ,1	7.1	1
1	Security in IoT-enabled smart agriculture: architecture, security solutions and challenges. <i>Cluster Computing</i> ,1	2.1	6

