Rasheed Hussain

List of Publications by Year
in descending order

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106 papers	3,441 citations	201674 27 h-index	175258 52 g-index
109 all docs	109 docs citations	109 times ranked	3220 citing authors

#	Article	IF	Citations
1	Machine Learning in IoT Security: Current Solutions and Future Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 1686-1721.	39.4	409
2	Autonomous Cars: Research Results, Issues, and Future Challenges. IEEE Communications Surveys and Tutorials, 2019, 21, 1275-1313.	39.4	331
3	Named Data Networking in Vehicular Ad Hoc Networks: State-of-the-Art and Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 320-351.	39.4	195
4	Machine Learning for Resource Management in Cellular and IoT Networks: Potentials, Current Solutions, and Open Challenges. IEEE Communications Surveys and Tutorials, 2020, 22, 1251-1275.	39.4	191
5	Rethinking Vehicular Communications: Merging VANET with cloud computing. , 2012, , .		189
6	Authentication in cloud-driven IoT-based big data environment: Survey and outlook. Journal of Systems Architecture, 2019, 97, 185-196.	4.3	120
7	Trust in VANET: A Survey of Current Solutions and Future Research Opportunities. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2553-2571.	8.0	107
8	MARINE: Man-in-the-Middle Attack Resistant Trust Model in Connected Vehicles. IEEE Internet of Things Journal, 2020, 7, 3310-3322.	8.7	94
9	Integration of VANET and 5G Security: A review of design and implementation issues. Future Generation Computer Systems, 2019, 101, 843-864.	7.5	92
10	Trustworthy Digital Twins in the Industrial Internet of Things With Blockchain. IEEE Internet Computing, 2022, 26, 58-67.	3.3	72
11	A New Comprehensive RSU Installation Strategy for Cost-Efficient VANET Deployment. IEEE Transactions on Vehicular Technology, 2016, , 1-1.	6.3	63
12	TACASHI: Trust-Aware Communication Architecture for Social Internet of Vehicles. IEEE Internet of Things Journal, 2019, 6, 5870-5877.	8.7	59
13	A Paradigm Shift from Vehicular Ad Hoc Networks to VANET-Based Clouds. Wireless Personal Communications, 2015, 83, 1131-1158.	2.7	55
14	Infotainment Enabled Smart Cars: A Joint Communication, Caching, and Computation Approach. IEEE Transactions on Vehicular Technology, 2019, 68, 8408-8420.	6.3	52
15	A Trusted Lightweight Communication Strategy for Flying Named Data Networking. Sensors, 2018, 18, 2683.	3.8	44
16	Secure and Privacy-Aware Incentives-Based Witness Service in Social Internet of Vehicles Clouds. IEEE Internet of Things Journal, 2018, 5, 2441-2448.	8.7	44
17	Cooperation-Aware VANET Clouds: Providing Secure Cloud Services to Vehicular Ad Hoc Networks. Journal of Information Processing Systems, 2014, 10, 103-118.	0.9	41
18	On the Role of Hash-Based Signatures in Quantum-Safe Internet of Things: Current Solutions and Future Directions. IEEE Internet of Things Journal, 2021, 8, 1-17.	8.7	40

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19	SVPS: Cloud-based smart vehicle parking system over ubiquitous VANETs. Computer Networks, 2018, 138, 18-30.	5.1	37
20	Blockchain-Based Digital Twins: Research Trends, Issues, and Future Challenges. ACM Computing Surveys, 2022, 54, 1-34.	23.0	37
21	Vehicle Witnesses as a Service: Leveraging Vehicles as Witnesses on the Road in VANET Clouds. , 2013, , .		36
22	Secure and privacy-aware traffic information as a service in VANET-based clouds. Pervasive and Mobile Computing, 2015, 24, 194-209.	3.3	35
23	The case of HyperLedger Fabric as a blockchain solution for healthcare applications. Blockchain: Research and Applications, 2021, 2, 100012.	6.7	34
24	Multi-label Class-imbalanced Action Recognition in Hockey Videos via 3D Convolutional Neural Networks. , 2018, , .		33
25	Orchestrating product provenance story: When IOTA ecosystem meets electronics supply chain space. Computers in Industry, 2020, 123, 103334.	9.9	31
26	A comprehensive survey on clustering in vehicular networks: Current solutions and future challenges. Ad Hoc Networks, 2022, 124, 102729.	5.5	31
27	A New Machine Learning-based Collaborative DDoS Mitigation Mechanism in Software-Defined Network. , 2018, , .		30
28	On Secure and Privacy-Aware Sybil Attack Detection in Vehicular Communications. Wireless Personal Communications, 2014, 77, 2649-2673.	2.7	29
29	Fuzziness-based active learning framework to enhance hyperspectral image classification performance for discriminative and generative classifiers. PLoS ONE, 2018, 13, e0188996.	2.5	28
30	Realization of Blockchain in Named Data Networking-Based Internet-of-Vehicles. IT Professional, 2019, 21, 41-47.	1.5	28
31	A Comprehensive Survey on Moving Networks. IEEE Communications Surveys and Tutorials, 2021, 23, 110-136.	39.4	28
32	Segmented and non-segmented stacked denoising autoencoder for hyperspectral band reduction. Optik, 2019, 180, 370-378.	2.9	27
33	A Distributed Cache Placement Scheme for Large-Scale Information-Centric Networking. IEEE Network, 2020, 34, 126-132.	6.9	27
34	Graphâ€based spatialâ€“spectral feature learning for hyperspectral image classification. IET Image Processing, 2017, 11, 1310-1316.	2.5	26
35	Realization of VANET-Based Cloud Services through Named Data Networking. IEEE Communications Magazine, 2018, 56, 168-175.	6.1	26
36	MSIDN: Mitigation of Sophisticated Interest flooding-based DDoS attacks in Named Data Networking. Future Generation Computer Systems, 2020, 107, 293-306.	7.5	26

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37	TIaaS: Secure Cloud-assisted Traffic Information Dissemination in Vehicular Ad Hoc Networks. , 2013, , .		25
38	Multilayer Partially Homomorphic Encryption Text Steganography (MLPHE-TS): A Zero Steganography Approach. Wireless Personal Communications, 2018, 103, 1563-1585.	2.7	24
39	A Hybrid Trust Management Framework for Vehicular Social Networks. Lecture Notes in Computer Science, 2016, , 214-225.	1.3	24
40	Towards Privacy Aware Pseudonymless Strategy for Avoiding Profile Generation in VANET. Lecture Notes in Computer Science, 2009, , 268-280.	1.3	24
41	Towards situational aware cyber-physical systems: A security-enhancing use case of blockchain-based digital twins. Computers in Industry, 2022, 141, 103699.	9.9	24
42	A New Block-Based Reinforcement Learning Approach for Distributed Resource Allocation in Clustered IoT Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 2891-2904.	6.3	21
43	Using public buses as mobile gateways in vehicular clouds. , 2014, , .		20
44	Towards Multi-metric Cache Replacement Policies in Vehicular Named Data Networks. , 2018, , .		20
45	Named Data Networkingâ€™s Intrinsic Cyber-Resilience for Vehicular CPS. IEEE Access, 2018, 6, 60570-60585.	4.2	19
46	A Comparative Analysis of Trust Models for Safety Applications in IoT-enabled Vehicular Networks. , 2019, , .		19
47	Provenance-enabled packet path tracing in the RPL-based internet of things. Computer Networks, 2020, 173, 107189.	5.1	19
48	A Comparative Analysis of Distributed Ledger Technologies for Smart Contract Development. , 2019, , .		18
49	Access Control Mechanisms in Named Data Networks. ACM Computing Surveys, 2022, 54, 1-35.	23.0	18
50	Social-Aware Bootstrapping and Trust Establishing Mechanism for Vehicular Social Networks. , 2017, , .		17
51	A Novel Contract Theory-Based Incentive Mechanism for Cooperative Task-Offloading in Electrical Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 8380-8395.	8.0	17
52	Carpooling in Connected and Autonomous Vehicles: Current Solutions and Future Directions. ACM Computing Surveys, 2022, 54, 1-36.	23.0	17
53	PBF: A New Privacy-Aware Billing Framework for Online Electric Vehicles with Bidirectional Auditability. Wireless Communications and Mobile Computing, 2017, 2017, 1-17.	1.2	16
54	A New Privacy-Aware Mutual Authentication Mechanism for Charging-on-the-Move in Online Electric Vehicles. , 2015, , .		15

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55	Traffic Information Dissemination System: Extending Cooperative Awareness Among Smart Vehicles with only Single-Hop Beacons in VANET. Wireless Personal Communications, 2016, 88, 151-172.	2.7	15
56	On M2M Micropayments: A Case Study of Electric Autonomous Vehicles. , 2018, , .		14
57	Effects of Differentiated 5G Services on Computational and Radio Resource Allocation Performance. IEEE Transactions on Network and Service Management, 2021, 18, 2226-2241.	4.9	14
58	BUAKA-CS: Blockchain-enabled user authentication and key agreement scheme for crowdsourcing system. Journal of Systems Architecture, 2022, 123, 102370.	4.3	14
59	A two level privacy preserving pseudonymous authentication protocol for VANET. , 2015, , .		13
60	Autonomous Cars: Social and Economic Implications. IT Professional, 2018, 20, 70-77.	1.5	13
61	Privacy-aware route tracing and revocation games in VANET-based clouds. , 2013, , .		12
62	CioSy: A Collaborative Blockchain-Based Insurance System. Electronics (Switzerland), 2021, 10, 1343.	3.1	12
63	Privacy-Aware VANET Security: Putting Data-Centric Misbehavior and Sybil Attack Detection Schemes into Practice. Lecture Notes in Computer Science, 2012, , 296-311.	1.3	11
64	Vehicular Sensor Networks: Applications, Advances and Challenges. Sensors, 2020, 20, 3686.	3.8	11
65	Conditional proxy re-encryption for secure big data group sharing in cloud environment. , 2014, , .		10
66	A Novel Deep Reinforcement Learning-based Approach for Task-offloading in Vehicular Networks. , 2021, , .		10
67	PB-MII: replacing static RSUs with public buses-based mobile intermediary infrastructure in urban VANET-based clouds. Cluster Computing, 2017, 20, 2231-2252.	5.0	9
68	A New Privacy Aware Payment Scheme for Wireless Charging of Electric Vehicles. Wireless Personal Communications, 2017, 92, 1011-1028.	2.7	9
69	A distributed time-limited multicast algorithm for VANETs using incremental power strategy. Computer Networks, 2018, 145, 141-155.	5.1	9
70	Interplay between Big Spectrum Data and Mobile Internet of Things: Current solutions and future challenges. Computer Networks, 2019, 163, 106879.	5.1	9
71	Caching Policies in NDN-IoT Architecture. EAI/Springer Innovations in Communication and Computing, 2020, , 43-64.	1.1	9
72	A Secure and Privacy-Aware Route Tracing and Revocation Mechanism in VANET-based Clouds. Journal of the Korea Institute of Information Security and Cryptology, 2014, 24, 795-807.	0.1	9

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73	Privacy Preserving Cloud-Based Computing Platform (PPCCP) for Using Location Based Services. , 2013, , .		8
74	A Novel Congestion-Aware Interest Flooding Attacks Detection Mechanism in Named Data Networking. , 2019, , .		8
75	Probabilistic Estimation of Honeypot Detection in Internet of Things Environment. , 2019, , .		8
76	AntiSybil: Standing against Sybil Attacks in Privacy-Preserved VANET. , 2012, , .		7
77	SC-DVR: a secure cloud computing based framework for DVR service. IEEE Transactions on Consumer Electronics, 2014, 60, 368-374.	3.6	7
78	Unsupervised geometrical feature learning from hyperspectral data. , 2016, , .		7
79	A Simple Yet Efficient Approach to Combat Transaction Malleability in Bitcoin. Lecture Notes in Computer Science, 2015, , 27-37.	1.3	7
80	Covert communication based privacy preservation in mobile vehicular networks. , 2015, , .		6
81	Evolution of Friendship. , 2017, , .		6
82	A Trust Management Framework for Software Defined Networks-based Internet of Things. , 2019, , .		6
83	A Comparative Analysis of Cryptographic Algorithms in the Internet of Things. , 2020, , .		6
84	A new outsourcing conditional proxy reâ€encryption suitable for mobile cloud environment. Concurrency Computation Practice and Experience, 2017, 29, e3946.	2.2	5
85	A Trustless Broker Based Protocol to Discover Friends in Proximity-Based Mobile Social Networks. Lecture Notes in Computer Science, 2015, , 216-227.	1.3	5
86	On Secure, Privacy-Aware, and Efficient Beacon Broadcasting among One-Hop Neighbors in VANETs. , 2014, , .		4
87	Cost effective mobile and static road side unit deployment for vehicular adhoc networks. , 2016, , .		4
88	Real-Time Density Detection in Connected Vehicles: Design and Implementation. IEEE Communications Magazine, 2018, 56, 64-70.	6.1	4
89	An Architecture for Distributed Ledger-Based M2M Auditing for Electric Autonomous Vehicles. Advances in Intelligent Systems and Computing, 2019, , 116-128.	0.6	4
90	Towards Pending Interest Table Management Solutions in Named Data Networking. Journal of Computational and Theoretical Nanoscience, 2019, 16, 4271-4279.	0.4	4

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91	Cost effective software engineering using program slicing techniques. , 2009, , .		3
92	Second-level degree-based entity resolution in online social networks. Social Network Analysis and Mining, 2018, 8, 1.	2.8	3
93	On the Adequacy of 5G Security for Vehicular Ad Hoc Networks. IEEE Communications Standards Magazine, 2021, 5, 32-39.	4.9	3
94	Leveraging Smart Contracts for Secure and Asynchronous Group Key Exchange Without Trusted Third Party. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 3176-3193.	5.4	3
95	Media cloud: A secure and efficient virtualization framework for media service. , 2014, , .		2
96	Human Activity Recognition Using Deep Models and Its Analysis from Domain Adaptation Perspective. Lecture Notes in Computer Science, 2019, , 189-202.	1.3	2
97	On the Fairness of Generative Adversarial Networks (GANs). , 2021, , .		2
98	Towards Achieving Anonymity in LBS: A Cloud Based Untrusted Middleware. , 2013, , .		1
99	C-DVR: Secure cloud based DVR framework based on personal virtualization. , 2014, , .		1
100	On the Blockchain-Based General-Purpose Public Key Infrastructure. , 2019, , .		1
101	Oversampling Versus Variational Autoencoders: Employing Synthetic Data for Detection of Heracleum Sosnowskyi in Satellite Images. Lecture Notes in Electrical Engineering, 2020, , 399-409.	0.4	1
102	Privacy aware incentive mechanism to collect mobile data while preventing duplication. , 2015, , .		0
103	Analysis of Android Camera Spoofing Techniques. , 2018, , .		0
104	Identity-Exchange based Privacy Preserving Mechanism in Vehicular Networks. Journal of the Korea Institute of Information Security and Cryptology, 2014, 24, 1147-1157.	0.1	0
105	A Machine to Machine Framework for the Charging of Electric Autonomous Vehicles. Advances in Intelligent Systems and Computing, 2020, , 34-45.	0.6	0
106	Towards a Secure and Efficient Location-based Secret Sharing Protocol. , 2020, , .		0