

# Abid Khan

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

1,937  
citations

257450

24  
h-index

330143

37  
g-index

122  
all docs

122  
docs citations

122  
times ranked

1735  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Analysis of Machine Learning Techniques for Predicting Air Quality in Smart Cities. IEEE Access, 2019, 7, 128325-128338.	4.2	131
2	A survey of cloud computing data integrity schemes: Design challenges, taxonomy and future trends. Computers and Security, 2017, 65, 29-49.	6.0	87
3	FESDA: Fog-Enabled Secure Data Aggregation in Smart Grid IoT Network. IEEE Internet of Things Journal, 2020, 7, 6132-6142.	8.7	81
4	An Integrated Antenna System for 4G and Millimeter-Wave 5G Future Handheld Devices. IEEE Access, 2019, 7, 116555-116566.	4.2	63
5	Analysis of Homotopy Perturbation Method for Solving Fractional Order Differential Equations. Mathematics, 2019, 7, 40.	2.2	62
6	Trustworthy data: A survey, taxonomy and future trends of secure provenance schemes. Journal of Network and Computer Applications, 2017, 94, 50-68.	9.1	61
7	An efficient privacy mechanism for electronic health records. Computers and Security, 2018, 72, 196-211.	6.0	47
8	Towards a formally verified zero watermarking scheme for data integrity in the Internet of Things based-wireless sensor networks. Future Generation Computer Systems, 2018, 82, 274-289.	7.5	44
9	A Modified Feature Selection and Artificial Neural Network-Based Day-Ahead Load Forecasting Model for a Smart Grid. Applied Sciences (Switzerland), 2015, 5, 1756-1772.	2.5	43
10	Detection of rank attack in routing protocol for Low Power and Lossy Networks. Annales Des Telecommunications/Annals of Telecommunications, 2018, 73, 429-438.	2.5	41
11	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
12	Orientation Independent Chipless RFID Tag Using Novel Trefoil Resonators. IEEE Access, 2019, 7, 122398-122407.	4.2	39
13	Towards greener smart cities and road traffic forecasting using air pollution data. Sustainable Cities and Society, 2021, 72, 103062.	10.4	39
14	Toward Smart Manufacturing Using Spiral Digital Twin Framework and Twinchain. IEEE Transactions on Industrial Informatics, 2022, 18, 1359-1366.	11.3	39
15	Region based cooperative routing in underwater wireless sensor networks. Journal of Network and Computer Applications, 2017, 92, 31-41.	9.1	37
16	Improved Generalization for Secure Data Publishing. IEEE Access, 2018, 6, 27156-27165.	4.2	36
17	Unsteady Magnetohydrodynamic Convective Fluid Flow of Oldroyd-B Model Considering Ramped Wall Temperature and Ramped Wall Velocity. Mathematics, 2019, 7, 676.	2.2	36
18	RALBA: a computation-aware load balancing scheduler for cloud computing. Cluster Computing, 2018, 21, 1667-1680.	5.0	35

#	ARTICLE	IF	CITATIONS
19	Privacy preservation in e-health cloud: taxonomy, privacy requirements, feasibility analysis, and opportunities. Cluster Computing, 2021, 24, 293-317.	5.0	35
20	Privacy aware decentralized access control system. Future Generation Computer Systems, 2019, 101, 420-433.	7.5	33
21	Orchestrating product provenance story: When IOTA ecosystem meets electronics supply chain space. Computers in Industry, 2020, 123, 103334.	9.9	31
22	Privacy aware IOTA ledger: Decentralized mixing and unlinkable IOTA transactions. Computer Networks, 2019, 148, 361-372.	5.1	30
23	Privacy preserving data aggregation with fault tolerance in fog-enabled smart grids. Sustainable Cities and Society, 2021, 64, 102522.	10.4	30
24	Decision Support System for Risk Assessment and Management Strategies in Distributed Software Development. IEEE Access, 2017, 5, 20349-20373.	4.2	29
25	A Comprehensive Review of Computing Paradigms, Enabling Computation Offloading and Task Execution in Vehicular Networks. IEEE Access, 2022, 10, 3580-3600.	4.2	28
26	Ī, -safety: A privacy model for sequential publication with arbitrary updates. Computers and Security, 2017, 66, 20-39.	6.0	25
27	Information collection centric techniques for cloud resource management: Taxonomy, analysis and challenges. Journal of Network and Computer Applications, 2017, 100, 80-94.	9.1	22
28	Curbing Address Reuse in the IOTA Distributed Ledger: A Cuckoo-Filter-Based Approach. IEEE Transactions on Engineering Management, 2020, 67, 1244-1255.	3.5	22
29	Chipless RFID Tag for Touch Event Sensing and Localization. IEEE Access, 2020, 8, 502-513.	4.2	22
30	Ī-Sensitive k-Anonymity: An Anonymization Model for IoT based Electronic Health Records. Electronics (Switzerland), 2020, 9, 716.	3.1	22
31	Post-quantum distributed ledger for internet of things. Computers and Electrical Engineering, 2020, 83, 106581.	4.8	20
32	Provenance-enabled packet path tracing in the RPL-based internet of things. Computer Networks, 2020, 173, 107189.	5.1	19
33	An efficient privacy preserving protocol for dynamic continuous data collection. Computers and Security, 2019, 86, 358-371.	6.0	18
34	A robust privacy preserving approach for electronic health records using multiple dataset with multiple sensitive attributes. Computers and Security, 2021, 105, 102224.	6.0	18
35	A novel mathematical model for COVID-19 with remedial strategies. Results in Physics, 2021, 27, 104248.	4.1	18
36	Privacy preservation of electronic health records with adversarial attacks identification in hybrid cloud. Computer Standards and Interfaces, 2021, 78, 103522.	5.4	18

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37	Introducing Secure Provenance in IoT: Requirements and Challenges. , 2016, , .		17
38	Towards ontology-based multilingual URL filtering: a big data problem. Journal of Supercomputing, 2018, 74, 5003-5021.	3.6	17
39	Privacy preserving data by conceptualizing smart cities using MIDR-Angelization. Sustainable Cities and Society, 2018, 40, 326-334.	10.4	17
40	Privacy-preserving model and generalization correlation attacks for 1:M data with multiple sensitive attributes. Information Sciences, 2019, 488, 238-256.	6.9	17
41	BCALS: Blockchain-based secure log management system for cloud computing. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4272.	3.9	17
42	Sink-to-Sink Coordination Framework Using RPL: Routing Protocol for Low Power and Lossy Networks. Journal of Sensors, 2016, 2016, 1-11.	1.1	16
43	Privacy Preserving for Multiple Sensitive Attributes against Fingerprint Correlation Attack Satisfying Diversity. Wireless Communications and Mobile Computing, 2020, 2020, 1-18.	1.2	15
44	Texture Representation Through Overlapped Multi-Oriented Tri-Scale Local Binary Pattern. IEEE Access, 2019, 7, 66668-66679.	4.2	14
45	Data trustworthiness in IoT. , 2018, , .		13
46	Smart Digital Signatures (SDS): A post-quantum digital signature scheme for distributed ledgers. Future Generation Computer Systems, 2020, 111, 241-253.	7.5	13
47	Buyer seller watermarking protocols issues and challenges – A survey. Journal of Network and Computer Applications, 2016, 75, 317-334.	9.1	12
48	Towards a set aggregation-based data integrity scheme for smart grids. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 551-561.	2.5	12
49	Recent advancements in garbled computing: How far have we come towards achieving secure, efficient and reusable garbled circuits. Journal of Network and Computer Applications, 2018, 108, 1-19.	9.1	12
50	Enhanced Architecture for Privacy Preserving Data Integration in a Medical Research Environment. IEEE Access, 2017, 5, 13308-13326.	4.2	11
51	Watermarking as a service (WaaS) with anonymity. Multimedia Tools and Applications, 2020, 79, 16051-16075.	3.9	11
52	Volunteer Computing in Connected Vehicles: Opportunities and Challenges. IEEE Network, 2020, 34, 212-218.	6.9	11
53	Location Proof Systems for Smart Internet of Things: Requirements, Taxonomy, and Comparative Analysis. Electronics (Switzerland), 2020, 9, 1776.	3.1	11
54	Blockchain-based secure multi-resource trading model for smart marketplace. Computing (Vienna/New Tj ETQq0 0,0,rgBT /Overlock 10	4.8	11

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55	Fog-enabled secure multiparty computation based aggregation scheme in smart grid. Computers and Electrical Engineering, 2021, 94, 107358.	4.8	10
56	Balanced Transmissions Based Trajectories of Mobile Sink in Homogeneous Wireless Sensor Networks. Journal of Sensors, 2017, 2017, 1-16.	1.1	9
57	S-box design based on optimize LFT parameter selection: a practical approach in recommendation system domain. Multimedia Tools and Applications, 2020, 79, 11667-11684.	3.9	9
58	An infrastructure-assisted job scheduling and task coordination in volunteer computing-based VANET. Complex & Intelligent Systems, 2023, 9, 3613-3633.	6.5	9
59	Privacy-preserving multilevel obfuscation scheme for vehicular network. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4204.	3.9	9
60	A context-aware information-based clone node attack detection scheme in Internet of Things. Journal of Network and Computer Applications, 2022, 197, 103271.	9.1	9
61	Energy Theft Detection in Smart Grids: Taxonomy, Comparative Analysis, Challenges, and Future Research Directions. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 578-600.	13.1	9
62	Secure provenance using an authenticated data structure approach. Computers and Security, 2018, 73, 34-56.	6.0	8
63	WOTS-S: A Quantum Secure Compact Signature Scheme for Distributed Ledger. Information Sciences, 2020, 539, 229-249.	6.9	8
64	Virtual Pseudonym-Changing and Dynamic Grouping Policy for Privacy Preservation in VANETs. Sensors, 2021, 21, 3077.	3.8	8
65	A Robust Framework for Protecting Computation Results of Mobile Agents. Information Technology Journal, 2007, 7, 24-31.	0.3	8
66	Authorization schemes for internet of things: requirements, weaknesses, future challenges and trends. Complex & Intelligent Systems, 2022, 8, 3919-3941.	6.5	8
67	Secure policy execution using reusable garbled circuit in the cloud. Future Generation Computer Systems, 2018, 87, 488-501.	7.5	7
68	Privacy-aware relationship semantics-based XACML access control model for electronic health records in hybrid cloud. International Journal of Distributed Sensor Networks, 2019, 15, 155014771984605.	2.2	7
69	An effective privacy preserving mechanism for 1: M microdata with high utility. Sustainable Cities and Society, 2019, 45, 213.	10.4	7
70	VANET-Based Volunteer Computing (VBVC): A Computational Paradigm for Future Autonomous Vehicles. IEEE Access, 2020, 8, 71763-71774.	4.2	7
71	Hybrid Task Coordination Using Multi-Hop Communication in Volunteer Computing-Based VANETs. Sensors, 2021, 21, 2718.	3.8	7
72	Adaptive and survivable trust management for Internet of Things systems. IET Information Security, 2021, 15, 375-394.	1.7	7

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73	Relationship Between Human Resource Management Practices, Enterprise Strategy and Company Outcomes: Service Industry of China. Information Technology Journal, 2014, 13, 614-623.	0.3	7
74	Secure Logging as a Service Using Reversible Watermarking. Procedia Computer Science, 2017, 110, 336-343.	2.0	6
75	A trust management system model for cloud. , 2017, , .		6
76	Bayesian spatial analysis and prediction of groundwater contamination in Jhelum city (Pakistan). Environmental Earth Sciences, 2018, 77, 1.	2.7	6
77	Control and numerical analysis for cancer chaotic system. Archive of Applied Mechanics, 2020, 90, 2597-2608.	2.2	6
78	Privacy Preservation in Skewed Data Using Frequency Distribution and Weightage (FDW). Journal of Medical Imaging and Health Informatics, 2017, 7, 1346-1357.	0.3	6
79	An intelligent framework to predict socioeconomic impacts of COVID-19 and public sentiments. Computers and Electrical Engineering, 2021, 96, 107526.	4.8	6
80	Semantics enabled role based sentiment analysis for drug abuse on social media: A framework. , 2016, , .		5
81	Provenance Inference Techniques: Taxonomy, comparative analysis and design challenges. Journal of Network and Computer Applications, 2018, 110, 11-26.	9.1	5
82	Robustness-Driven Hybrid Descriptor for Noise-Deterrent Texture Classification. IEEE Access, 2019, 7, 110116-110127.	4.2	5
83	Control of chaos in thermal convection loop by state space linearization. Chinese Journal of Physics, 2019, 58, 166-178.	3.9	5
84	An Accurate Texture Complexity Estimation for Quality-Enhanced and Secure Image Steganography. IEEE Access, 2020, 8, 21613-21630.	4.2	5
85	Lucy With Agents in the Sky: Trustworthiness of Cloud Storage for Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 953-960.	11.3	5
86	A semantic rule based digital fraud detection. PeerJ Computer Science, 2021, 7, e649.	4.5	5
87	A high-level domain-specific language for SIEM (design, development and formal verification). Cluster Computing, 2017, 20, 2423-2437.	5.0	4
88	Formal modeling and verification of security controls for multimedia systems in the cloud. Multimedia Tools and Applications, 2017, 76, 22845-22870.	3.9	4
89	Order preserving secure provenance scheme for distributed networks. Computers and Security, 2019, 82, 99-117.	6.0	4
90	A Secure Provenance Scheme for Detecting Consecutive Colluding Users in Distributed Networks. International Journal of Parallel Programming, 2020, 48, 344-366.	1.5	4

#	ARTICLE	IF	CITATIONS
91	( <i>sc</i> ) slicedBucket privacy model for sequential anonymization for improving privacy and utility. Transactions on Emerging Telecommunications Technologies, 2022, 33, e4130.	3.9	4
92	Formal verification and complexity analysis of confidentiality aware textual clinical documents framework. International Journal of Intelligent Systems, 0, , .	5.7	4
93	An Ontology-Based Approach for Detecting Drug Abuse Epidemiology. Journal of Medical Imaging and Health Informatics, 2017, 7, 1324-1337.	0.3	4
94	Optimizing SIEM Throughput on the Cloud Using Parallelization. PLoS ONE, 2016, 11, e0162746.	2.5	4
95	A Distributed Mix-Context-Based Method for Location Privacy in Road Networks. Sustainability, 2021, 13, 12513.	3.2	4
96	Aggregated Signatures for Chaining: A Secure Provenance Scheme. , 2016, , .		3
97	A Zero Watermarking Scheme for Data Integrity in Wireless Sensor Networks. , 2016, , .		3
98	Structures and data preserving homomorphic signatures. Journal of Network and Computer Applications, 2018, 102, 58-70.	9.1	3
99	Anonymity-preserving Reputation Management System for health sector. PLoS ONE, 2018, 13, e0195021.	2.5	3
100	Towards Preserving Privacy of Outsourced Genomic Data Over the Cloud. Journal of Medical Imaging and Health Informatics, 2017, 7, 1475-1482.	0.3	3
101	Secure login protocols: An analysis on modern attacks and solutions. , 2016, , .		2
102	VisTAS: blockchain-based visible and trusted remote authentication system. PeerJ Computer Science, 2021, 7, e516.	4.5	2
103	Preserving Privacy of High-Dimensional Data by l-Diverse Constrained Slicing. Electronics (Switzerland), 2022, 11, 1257.	3.1	2
104	Protecting Mobile Agent's Computation Results with Reversible Watermarking and Digital Signature. , 2007, , .		1
105	Memory based scheme to monitor non-random small shift patterns in manufacturing process. Journal of Shanghai Jiaotong University (Science), 2016, 21, 509-512.	0.9	1
106	A Fault Tolerant Approach for Malicious URL Filtering. , 2018, , .		1
107	OBAC: towards agent-based identification and classification of roles, objects, permissions (ROP) in distributed environment. Multimedia Tools and Applications, 2020, 79, 34363-34384.	3.9	1
108	A formal adversarial perspective: Secure and efficient electronic health records collection scheme for multi-records datasets. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4180.	3.9	1

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109	MobChain: Three-Way Collusion Resistance in Witness-Oriented Location Proof Systems Using Distributed Consensus. Sensors, 2021, 21, 5096.	3.8	1
110	On the Security Properties and Attacks against Mobile Agent Graph Head Sealing (MAGHS). Lecture Notes in Computer Science, 2009, , 223-228.	1.3	1
111	On the security properties and attacks against Mobile agent watermark encapsulation(MAWE). Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	0
112	CLUSMA. , 2009, , .		0
113	Mobile agent watermarking (MAW). , 2009, , .		0
114	Performance analysis of prioritized and non prioritized handoff call queuing schemes in mobile cellular networks. , 2009, , .		0
115	Towards an Ontology-Based Solution for Managing License Agreement Using Semantic Desktop. , 2010, , .		0
116	Reactive GTS Allocation Protocol for Sporadic Events Using the IEEE 802.15.4. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	0
117	Statistical process control based chart for information systems security. , 2015, , .		0
118	Adaptive Reputation Weights Assignment Scheme for MANETs. , 2016, , .		0
119	Pulmonary health risks of working at a cement plant in Khyber Pakhtunkhwa province of Pakistan. JPMA the Journal of the Pakistan Medical Association, 2019, 69, 869-873.	0.2	0
120	Is There Complementarity between Teaching and Research? Evidence from Pakistani Higher Education Institutions. Education Research International, 2022, 2022, 1-14.	1.1	0