

Sk Hafizul Islam

List of Publications by Year in Descending Order

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Version: 2024-04-10

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

131 papers	2,997 citations	33 h-index	49 g-index
140 ext. papers	3,761 ext. citations	3.6 avg, IF	6.22 L-index

#	Paper	IF	Citations
131	Deep learning techniques for observing the impact of the global warming from satellite images of water-bodies.. <i>Multimedia Tools and Applications</i> , 2022 , 81, 1-16	2.5	0
130	An IoT-Based Diet Monitoring Healthcare System for Women 2022 , 167-202		3
129	Touch and Voice-Assisted Multilingual Communication Prototype for ICU Patients Specific to COVID-19 2022 , 71-85		
128	Data-Driven Decision Making in IoT Healthcare SystemsCOVID-19: A Case Study 2022 , 57-70		0
127	Impact of Healthcare 4.0 Technologies for Future Capacity Building to Control Epidemic Diseases 2022 , 115-142		0
126	The Implementation of AI and AI-Empowered Imaging System to Fight Against COVID-19A Review 2022 , 301-311		2
125	Machine Learning Technologies in IoT EEG-Based Healthcare Prediction 2022 , 1-32		1
124	A Secure Framework for Protecting Clinical Data in Medical IoT Environment 2022 , 203-234		5
123	Security and Privacy of IoT Devices in Healthcare Systems 2022 , 143-165		0
122	Cloud-Assisted IoT System for Epidemic Disease Detection and Spread Monitoring 2022 , 87-114		1
121	Implementation of Machine Learning Techniques for the Analysis of Transmission Dynamics of COVID-19 2022 , 313-349		
120	Efficient Data Transmission and Remote Monitoring System for IoT Applications 2022 , 235-263		
119	Smart Health Application for Remote Tracking of Ambulatory Patients 2022 , 33-55		2
118	Reliance on Artificial Intelligence, Machine Learning and Deep Learning in the Era of Industry 4.0 2022 , 281-299		1
117	IoT in the Current Times and its Prospective Advancements 2022 , 265-280		0
116	Trident U-Net: An Encoder Fusion for Improved Biomedical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2021 , 141-154	0.9	
115	. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	10

114	Provably secure and biometric-based secure access of e-Governance services using mobile devices. <i>Journal of Information Security and Applications</i> , 2021 , 63, 103016	3.5	0
113	PB-3PAKA: Password-based three-party authenticated key agreement protocol for mobile devices in post-quantum environments. <i>Journal of Information Security and Applications</i> , 2021 , 63, 103026	3.5	
112	An efficient and forward-secure lattice-based searchable encryption scheme for the Big-data era. <i>Computers and Electrical Engineering</i> , 2021 , 96, 107533	4.3	0
111	Design of pseudo-random number generator from turbulence padded chaotic map. <i>Nonlinear Dynamics</i> , 2021 , 104, 1627-1643	5	5
110	DAWM: Cost-Aware Asset Claim Analysis Approach on Big Data Analytic Computation Model for Cloud Data Centre. <i>Security and Communication Networks</i> , 2021 , 2021, 1-16	1.9	9
109	Bi-GISIS KE: Modified key exchange protocol with reusable keys for IoT security. <i>Journal of Information Security and Applications</i> , 2021 , 58, 102788	3.5	25
108	Provably secure biometric-based client-server secure communication over unreliable networks. <i>Journal of Information Security and Applications</i> , 2021 , 58, 102769	3.5	3
107	A comprehensive review on collision-resistant hash functions on lattices. <i>Journal of Information Security and Applications</i> , 2021 , 58, 102782	3.5	0
106	A Provably Secure and Lightweight Identity-Based Two-Party Authenticated Key Agreement Protocol for IIoT Environments. <i>IEEE Systems Journal</i> , 2021 , 15, 1732-1741	4.3	15
105	Provably Secure and Lightweight Identity-Based Authenticated Data Sharing Protocol for Cyber-Physical Cloud Environment. <i>IEEE Transactions on Cloud Computing</i> , 2021 , 9, 318-330	3.3	19
104	Secure content-based image retrieval using modified Euclidean distance for encrypted features. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021 , 32, e4013	1.9	4
103	LAAC: Lightweight Lattice-Based Authentication and Access Control Protocol for E-Health Systems in IoT Environments. <i>IEEE Systems Journal</i> , 2021 , 15, 3620-3627	4.3	6
102	A provably secure and lightweight authentication scheme for Internet of Drones for smart city surveillance. <i>Journal of Systems Architecture</i> , 2021 , 115, 101955	5.5	17
101	Improved ECC-Based Three-Factor Multiserver Authentication Scheme. <i>Security and Communication Networks</i> , 2021 , 2021, 1-14	1.9	17
100	Model based IoT security framework using multiclass adaptive boosting with SMOTE. <i>Security and Privacy</i> , 2020 , 3, e112	1.8	4
99	An Improved Authentication Scheme for Remote Data Access and Sharing Over Cloud Storage in Cyber-Physical-Social-Systems. <i>IEEE Access</i> , 2020 , 8, 47144-47160	3.5	14
98	Provably secure two-party authenticated key agreement protocol for post-quantum environments. <i>Journal of Information Security and Applications</i> , 2020 , 52, 102468	3.5	5
97	A robust authentication and access control protocol for securing wireless healthcare sensor networks. <i>Journal of Information Security and Applications</i> , 2020 , 52, 102502	3.5	34

96	Provably secure identity-based two-party authenticated key agreement protocol based on CBI-ISIS and Bi-ISIS problems on lattices. <i>Journal of Information Security and Applications</i> , 2020 , 54, 102540	3.5	2
95	An enhanced and provably secure multi-factor authentication scheme for Internet-of-Multimedia-Things environments. <i>Computers and Electrical Engineering</i> , 2020 , 88, 106888	4.3	9
94	A Provably Secure Two-Factor Authentication Scheme for USB Storage Devices. <i>IEEE Transactions on Consumer Electronics</i> , 2020 , 66, 396-405	4.8	13
93	Lung cancer prediction using higher-order recurrent neural network based on glowworm swarm optimization. <i>Neural Computing and Applications</i> , 2020 , 32, 4373-4386	4.8	20
92	Efficient and Secure Anonymous Authentication With Location Privacy for IoT-Based WBANs. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 2603-2611	11.9	53
91	. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 1947-1956	11.9	16
90	An improved three-factor authentication scheme for patient monitoring using WSN in remote health-care system. <i>Computer Methods and Programs in Biomedicine</i> , 2019 , 182, 105054	6.9	35
89	MGPV: A novel and efficient scheme for secure data sharing among mobile users in the public cloud. <i>Future Generation Computer Systems</i> , 2019 , 95, 560-569	7.5	3
88	A lightweight machine learning-based authentication framework for smart IoT devices. <i>Information Sciences</i> , 2019 , 484, 255-268	7.7	40
87	Applying an ensemble convolutional neural network with Savitzky-Golay filter to construct a phonocardiogram prediction model. <i>Applied Soft Computing Journal</i> , 2019 , 78, 29-40	7.5	46
86	Intelligent temporal classification and fuzzy rough set-based feature selection algorithm for intrusion detection system in WSNs. <i>Information Sciences</i> , 2019 , 497, 77-90	7.7	46
85	Security analysis on mutual authentication scheme for multimedia medical information systems. <i>Security and Privacy</i> , 2019 , 2, e67	1.8	1
84	A novel machine learning based feature selection for motor imagery EEG signal classification in Internet of medical things environment. <i>Future Generation Computer Systems</i> , 2019 , 98, 419-434	7.5	48
83	A Secure Identity-based Deniable Authentication Protocol for MANETs 2019 ,		1
82	Anonymity Preserving and Lightweight Multimodal Server Authentication Protocol for Telecare Medical Information System. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 1749-1759	7.2	37
81	A robust and efficient mutual authentication and key agreement scheme with untraceability for WBANs. <i>Computer Networks</i> , 2019 , 148, 196-213	5.4	31
80	Secure CLS and CL-AS schemes designed for VANETs. <i>Journal of Supercomputing</i> , 2019 , 75, 3076-3098	2.5	44
79	Provably Secure and Lightweight Certificateless Signature Scheme for IIoT Environments. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3701-3711	11.9	107

78	An untraceable and anonymous password authentication protocol for heterogeneous wireless sensor networks. <i>Journal of Network and Computer Applications</i> , 2018 , 104, 133-144	7.9	46
77	A robust mutual authentication protocol for WSN with multiple base-stations. <i>Ad Hoc Networks</i> , 2018 , 75-76, 1-18	4.8	20
76	A pairing-free and provably secure certificateless signature scheme. <i>Information Sciences</i> , 2018 , 450, 378-391	7.7	46
75	A robust and anonymous patient monitoring system using wireless medical sensor networks. <i>Future Generation Computer Systems</i> , 2018 , 80, 483-495	7.5	154
74	A provably secure biometrics-based authenticated key agreement scheme for multi-server environments. <i>Multimedia Tools and Applications</i> , 2018 , 77, 2359-2389	2.5	30
73	Lightweight and privacy-preserving RFID authentication scheme for distributed IoT infrastructure with secure localization services for smart city environment. <i>Future Generation Computer Systems</i> , 2018 , 83, 629-637	7.5	100
72	A robust and efficient password-based conditional privacy preserving authentication and group-key agreement protocol for VANETs. <i>Future Generation Computer Systems</i> , 2018 , 84, 216-227	7.5	93
71	A robust and efficient bilinear pairing based mutual authentication and session key verification over insecure communication. <i>Multimedia Tools and Applications</i> , 2018 , 77, 11041-11066	2.5	10
70	A Provably Secure Three-Factor Session Initiation Protocol for Multimedia Big Data Communications. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 3408-3418	10.7	24
69	Provably Secure Identity-Based Signcryption Scheme for Crowdsourced Industrial Internet of Things Environments. <i>IEEE Internet of Things Journal</i> , 2018 , 5, 2904-2914	10.7	69
68	An intelligent/cognitive model of task scheduling for IoT applications in cloud computing environment. <i>Future Generation Computer Systems</i> , 2018 , 88, 254-261	7.5	57
67	Anonymous and expeditious mobile user authentication scheme for GLOMONET environments. <i>International Journal of Communication Systems</i> , 2018 , 31, e3461	1.7	5
66	Efficient authentication protocol for secure multimedia communications in IoT-enabled wireless sensor networks. <i>Multimedia Tools and Applications</i> , 2018 , 77, 18295-18325	2.5	40
65	ES3B: Enhanced Security System for Smart Building Using IoT 2018 ,		6
64	A comparative study and analysis of some pseudorandom number generator algorithms. <i>Security and Privacy</i> , 2018 , 1, e46	1.8	2
63	A novel biometric-based password authentication scheme for client-server environment using ECC and fuzzy extractor. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , 2018 , 27, 138	0.7	7
62	Secure cognitive radio-based synchronized transmission of 5G signals using massive MIMO-OFDM-ES. <i>International Journal of Communication Systems</i> , 2018 , 31, e3805	1.7	1
61	A Robust and Efficient Privacy Aware Handover Authentication Scheme for Wireless Networks. <i>Wireless Personal Communications</i> , 2017 , 93, 311-335	1.9	25

60	A pairing-free identity-based two-party authenticated key agreement protocol for secure and efficient communication. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2017 , 29, 63-73	2.5	12
59	An improved three party authenticated key exchange protocol using hash function and elliptic curve cryptography for mobile-commerce environments. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2017 , 29, 311-324	2.5	13
58	A pairing-free certificateless digital multisignature scheme using elliptic curve cryptography. <i>International Journal of Computer Mathematics</i> , 2017 , 94, 39-55	1.2	11
57	Design of a Certificateless Designated Server Based Searchable Public Key Encryption Scheme. <i>Communications in Computer and Information Science</i> , 2017 , 3-15	0.3	9
56	A robust ElGamal-based password-authentication protocol using smart card for client-server communication. <i>International Journal of Communication Systems</i> , 2017 , 30, e3242	1.7	26
55	A software agent enabled biometric security algorithm for secure file access in consumer storage devices. <i>IEEE Transactions on Consumer Electronics</i> , 2017 , 63, 53-61	4.8	24
54	An anonymous and robust multi-server authentication protocol using multiple registration servers. <i>International Journal of Communication Systems</i> , 2017 , 30, e3457	1.7	8
53	A Two-Factor RSA-Based Robust Authentication System for Multiserver Environments. <i>Security and Communication Networks</i> , 2017 , 2017, 1-15	1.9	25
52	Secure Data Access and Sharing Scheme for Cloud Storage. <i>Wireless Personal Communications</i> , 2017 , 96, 5295-5314	1.9	11
51	A Robust and Efficient Three-Factor Authentication and Session Key Agreement Mechanism for SIP 2017 ,		1
50	Provably secure and pairing-free identity-based handover authentication protocol for wireless mobile networks. <i>International Journal of Communication Systems</i> , 2016 , 29, 2442-2456	1.7	21
49	Design and analysis of an improved smartcard-based remote user password authentication scheme. <i>International Journal of Communication Systems</i> , 2016 , 29, 1708-1719	1.7	64
48	Design of an enhanced authentication protocol and its verification using AVISPA 2016 ,		4
47	Security analysis and design of an efficient ECC-based two-factor password authentication scheme. <i>Security and Communication Networks</i> , 2016 , 9, 4166-4181	1.9	28
46	An efficient group key agreement protocol for secure P2P communication. <i>Security and Communication Networks</i> , 2016 , 9, 3952-3965	1.9	18
45	Design of a provably secure identity-based digital multi-signature scheme using biometrics and fuzzy extractor. <i>Security and Communication Networks</i> , 2016 , 9, 3229-3238	1.9	9
44	An enhanced multi-server authentication protocol using password and smart-card: cryptanalysis and design. <i>Security and Communication Networks</i> , 2016 , 9, 4615-4638	1.9	25
43	A more secure and privacy-aware anonymous user authentication scheme for distributed mobile cloud computing environments. <i>Security and Communication Networks</i> , 2016 , 9, 4650-4666	1.9	30

42	An effective key distribution for secure internet pay-TV using access key hierarchies. <i>Security and Communication Networks</i> , 2016 , 9, 5085-5097	1.9	14
41	An anonymous and provably secure authentication scheme for mobile user. <i>International Journal of Communication Systems</i> , 2016 , 29, 1529-1544	1.7	22
40	Design of an anonymity-preserving three-factor authenticated key exchange protocol for wireless sensor networks. <i>Computer Networks</i> , 2016 , 101, 42-62	5.4	178
39	A Novel Chaotic Maps-Based User Authentication and Key Agreement Protocol for Multi-server Environments with Provable Security. <i>Wireless Personal Communications</i> , 2016 , 89, 569-597	1.9	34
38	Provably Secure Pairing-Free Identity-Based Partially Blind Signature Scheme and Its Application in Online E-cash System. <i>Arabian Journal for Science and Engineering</i> , 2016 , 41, 3163-3176		17
37	Provably secure one-round certificateless authenticated group key agreement protocol for secure communications. <i>Wireless Personal Communications</i> , 2015 , 85, 879-898	1.9	10
36	Provably Secure and Anonymous Password Authentication Protocol for Roaming Service in Global Mobility Networks Using Extended Chaotic Maps. <i>Wireless Personal Communications</i> , 2015 , 84, 2013-2034	1.9	22
35	Cryptanalysis and improvement of a password-based user authentication scheme for the integrated EPR information system. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2015 , 27, 211-221	2.5	10
34	Design and analysis of a three party password-based authenticated key exchange protocol using extended chaotic maps. <i>Information Sciences</i> , 2015 , 312, 104-130	7.7	40
33	An Efficient and Practical Smart Card Based Anonymity Preserving User Authentication Scheme for TMIS using Elliptic Curve Cryptography. <i>Journal of Medical Systems</i> , 2015 , 39, 180	5.1	61
32	Cryptanalysis and Enhancement of Anonymity Preserving Remote User Mutual Authentication and Session Key Agreement Scheme for E-Health Care Systems. <i>Journal of Medical Systems</i> , 2015 , 39, 140	5.1	49
31	Design and Analysis of an Enhanced Patient-Server Mutual Authentication Protocol for Telecare Medical Information System. <i>Journal of Medical Systems</i> , 2015 , 39, 137	5.1	28
30	Anonymous and provably secure certificateless multireceiver encryption without bilinear pairing. <i>Security and Communication Networks</i> , 2015 , 8, 2214-2231	1.9	41
29	A Reading Oriented Overlapping Text based CAPTCHA 2015 ,		2
28	Design of provably secure and efficient certificateless blind signature scheme using bilinear pairing. <i>Security and Communication Networks</i> , 2015 , 8, 4319-4332	1.9	9
27	A provably secure and efficient two-party password-based explicit authenticated key exchange protocol resistance to password guessing attacks. <i>Concurrency Computation Practice and Experience</i> , 2015 , 27, 4897-4913	1.4	8
26	Security Analysis and Improvement of 'a More Secure Anonymous User Authentication Scheme for the Integrated EPR Information System'. <i>PLoS ONE</i> , 2015 , 10, e0131368	3.7	14
25	Provably Secure and Pairing-Based Strong Designated Verifier Signature Scheme with Message Recovery. <i>Arabian Journal for Science and Engineering</i> , 2015 , 40, 1069-1080		8

24	Design of Two-Party Authenticated Key Agreement Protocol Based on ECC and Self-Certified Public Keys. <i>Wireless Personal Communications</i> , 2015 , 82, 2727-2750	1.9	40
23	Leakage-Free and Provably Secure Certificateless Signcryption Scheme Using Bilinear Pairings. <i>Computer Journal</i> , 2015 , 58, 2636-2648	1.3	15
22	Dynamic ID-based remote user mutual authentication scheme with smartcard using Elliptic Curve Cryptography. <i>Journal of Electronics</i> , 2014 , 31, 473-488		17
21	A Provably Secure ID-Based Mutual Authentication and Key Agreement Scheme for Mobile Multi-Server Environment Without ESL Attack. <i>Wireless Personal Communications</i> , 2014 , 79, 1975-1991	1.9	49
20	Provably secure dynamic identity-based three-factor password authentication scheme using extended chaotic maps. <i>Nonlinear Dynamics</i> , 2014 , 78, 2261-2276	5	46
19	Cryptanalysis and improvement of authentication and key agreement protocols for telecare medicine information systems. <i>Journal of Medical Systems</i> , 2014 , 38, 135	5.1	71
18	Certificateless short sequential and broadcast multisignature schemes using elliptic curve bilinear pairings. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2014 , 26, 89-97	2.5	6
17	A provably secure identity-based strong designated verifier proxy signature scheme from bilinear pairings. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2014 , 26, 55-67	2.5	19
16	Cryptanalysis of an Improved Smartcard-based Remote Password Authentication Scheme. <i>Information Sciences Letters</i> , 2014 , 3, 35-40	3.2	11
15	Design of improved password authentication and update scheme based on elliptic curve cryptography. <i>Mathematical and Computer Modelling</i> , 2013 , 57, 2703-2717		55
14	Provably secure certificateless strong designated verifier signature scheme based on elliptic curve bilinear pairings. <i>Journal of King Saud University - Computer and Information Sciences</i> , 2013 , 25, 51-61	2.5	8
13	Provably secure and pairing-free certificateless digital signature scheme using elliptic curve cryptography. <i>International Journal of Computer Mathematics</i> , 2013 , 90, 2244-2258	1.2	34
12	AN EFFICIENT AND SECURE STRONG DESIGNATED VERIFIER SIGNATURE SCHEME WITHOUT BILINEAR PAIRINGS. <i>Journal of Applied Mathematics & Informatics</i> , 2013 , 31, 425-441		13
11	An improved pairing-free identity-based authenticated key agreement protocol based on ECC. <i>Procedia Engineering</i> , 2012 , 30, 499-507		24
10	A pairing-free identity-based authenticated group key agreement protocol for imbalanced mobile networks. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2012 , 67, 547-558	2	52
9	Certificateless strong designated verifier multisignature scheme using bilinear pairings 2012 ,		9
8	An improved ID-based client authentication with key agreement scheme on ECC for mobile client-server environments. <i>Theoretical and Applied Informatics</i> , 2012 , 24,		14
7	A more efficient and secure ID-based remote mutual authentication with key agreement scheme for mobile devices on elliptic curve cryptosystem. <i>Journal of Systems and Software</i> , 2011 , 84, 1892-1898	3.3	112

6	An object detection-based few-shot learning approach for multimedia quality assessment. <i>Multimedia Systems</i> ,1	2.2	0
5	Secure and efficient image retrieval through invariant features selection in insecure cloud environments. <i>Neural Computing and Applications</i> ,1	4.8	2
4	Radiological image retrieval technique using multi-resolution texture and shape features. <i>Multimedia Tools and Applications</i> ,1	2.5	0
3	Computational intelligence based secure three-party CBIR scheme for medical data for cloud-assisted healthcare applications. <i>Multimedia Tools and Applications</i> ,1	2.5	3
2	Blockchain-based medical data sharing schedule guaranteeing security of individual entities. <i>Journal of Ambient Intelligence and Humanized Computing</i> ,1	3.7	2
1	IIRM: Intelligent Information Retrieval Model for Structured Documents by One-Shot Training Using Computer Vision. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	0