

Muhammad Khurram Khan

List of Publications by Year in descending order

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367
papers

16,237
citations

14655

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26613

107
g-index

373
all docs

373
docs citations

373
times ranked

10792
citing authors

#	ARTICLE	IF	CITATIONS
1	Medical Image Analysis using Convolutional Neural Networks: A Review. Journal of Medical Systems, 2018, 42, 226.	3.6	728
2	A survey on privacy protection in blockchain system. Journal of Network and Computer Applications, 2019, 126, 45-58.	9.1	512
3	Cryptanalysis and Security Improvements of Two-Factor User Authentication in Wireless Sensor Networks. Sensors, 2010, 10, 2450-2459.	3.8	342
4	Design of an anonymity-preserving three-factor authenticated key exchange protocol for wireless sensor networks. Computer Networks, 2016, 101, 42-62.	5.1	248
5	A robust and anonymous patient monitoring system using wireless medical sensor networks. Future Generation Computer Systems, 2018, 80, 483-495.	7.5	241
6	An enhanced smart card based remote user password authentication scheme. Journal of Network and Computer Applications, 2013, 36, 1365-1371.	9.1	231
7	Applications of blockchain in ensuring the security and privacy of electronic health record systems: A survey. Computers and Security, 2020, 97, 101966.	6.0	231
8	b-SPECS+: Batch Verification for Secure Pseudonymous Authentication in VANET. IEEE Transactions on Information Forensics and Security, 2013, 8, 1860-1875.	6.9	214
9	Cryptanalysis and security enhancement of a more efficient & secure dynamic ID-based remote user authentication scheme. Computer Communications, 2011, 34, 305-309.	5.1	210
10	On cloud security attacks: A taxonomy and intrusion detection and prevention as a service. Journal of Network and Computer Applications, 2016, 74, 98-120.	9.1	202
11	Performance evaluation of score level fusion in multimodal biometric systems. Pattern Recognition, 2010, 43, 1789-1800.	8.1	198
12	An effective memetic differential evolution algorithm based on chaotic local search. Information Sciences, 2011, 181, 3175-3187.	6.9	198
13	Millimeter-Wave Wireless Communications for IoT-Cloud Supported Autonomous Vehicles: Overview, Design, and Challenges. , 2017, 55, 62-68.		190
14	A Survey on Blockchain Technology: Evolution, Architecture and Security. IEEE Access, 2021, 9, 61048-61073.	4.2	182
15	A Secure Trust Model Based on Fuzzy Logic in Vehicular Ad Hoc Networks With Fog Computing. IEEE Access, 2017, 5, 15619-15629.	4.2	180
16	An efficient certificateless aggregate signature with conditional privacy-preserving for vehicular sensor networks. Information Sciences, 2015, 317, 48-66.	6.9	174
17	An efficient ECC-based provably secure three-factor user authentication and key agreement protocol for wireless healthcare sensor networks. Computers and Electrical Engineering, 2018, 69, 534-554.	4.8	171
18	A privacy preserving three-factor authentication protocol for e-Health clouds. Journal of Supercomputing, 2016, 72, 3826-3849.	3.6	161

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19	Fog Vehicular Computing: Augmentation of Fog Computing Using Vehicular Cloud Computing. IEEE Vehicular Technology Magazine, 2017, 12, 55-64.	3.4	158
20	Chaotic hash-based fingerprint biometric remote user authentication scheme on mobile devices. Chaos, Solitons and Fractals, 2008, 35, 519-524.	5.1	153
21	The Internet of Things: A Review of Enabled Technologies and Future Challenges. IEEE Access, 2019, 7, 7606-7640.	4.2	152
22	Blockchain-based identity management systems: A review. Journal of Network and Computer Applications, 2020, 166, 102731.	9.1	147
23	Trust Management Techniques for the Internet of Things: A Survey. IEEE Access, 2019, 7, 29763-29787.	4.2	146
24	Design of Secure and Lightweight Authentication Protocol for Wearable Devices Environment. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1310-1322.	6.3	145
25	Securing software defined networks: taxonomy, requirements, and open issues. , 2015, 53, 36-44.		143
26	A user friendly mutual authentication and key agreement scheme for wireless sensor networks using chaotic maps. Future Generation Computer Systems, 2016, 63, 56-75.	7.5	140
27	Improving the security of "a flexible biometrics remote user authentication scheme"™. Computer Standards and Interfaces, 2007, 29, 82-85.	5.4	137
28	Caching in Information-Centric Networking: Strategies, Challenges, and Future Research Directions. IEEE Communications Surveys and Tutorials, 2018, 20, 1443-1474.	39.4	130
29	Efficient Privacy-Aware Authentication Scheme for Mobile Cloud Computing Services. IEEE Systems Journal, 2018, 12, 1621-1631.	4.6	126
30	A Secure Three-Factor User Authentication Protocol With Forward Secrecy for Wireless Medical Sensor Network Systems. IEEE Systems Journal, 2020, 14, 39-50.	4.6	125
31	Cryptanalysis and improvement on two efficient remote user authentication scheme using smart cards. Computer Standards and Interfaces, 2007, 29, 507-512.	5.4	123
32	Chaos-based secure satellite imagery cryptosystem. Computers and Mathematics With Applications, 2010, 60, 326-337.	2.7	123
33	User authentication schemes for wireless sensor networks: A review. Ad Hoc Networks, 2015, 27, 159-194.	5.5	123
34	Deep features-based speech emotion recognition for smart affective services. Multimedia Tools and Applications, 2019, 78, 5571-5589.	3.9	123
35	PoRX: A reputation incentive scheme for blockchain consensus of IIoT. Future Generation Computer Systems, 2020, 102, 140-151.	7.5	123
36	Topology Discovery in Software Defined Networks: Threats, Taxonomy, and State-of-the-Art. IEEE Communications Surveys and Tutorials, 2017, 19, 303-324.	39.4	122

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37	Seamless application execution in mobile cloud computing: Motivation, taxonomy, and open challenges. <i>Journal of Network and Computer Applications</i> , 2015, 52, 154-172.	9.1	121
38	Joint Admission Control and Resource Allocation in Edge Computing for Internet of Things. <i>IEEE Network</i> , 2018, 32, 72-79.	6.9	117
39	An improved remote user authentication scheme with key agreement. <i>Computers and Electrical Engineering</i> , 2014, 40, 1997-2012.	4.8	113
40	A new authentication protocol for healthcare applications using wireless medical sensor networks with user anonymity. <i>Security and Communication Networks</i> , 2016, 9, 2643-2655.	1.5	112
41	Wireless Sensor Networks in oil and gas industry: Recent advances, taxonomy, requirements, and open challenges. <i>Journal of Network and Computer Applications</i> , 2018, 113, 87-97.	9.1	111
42	Lightweight anonymous key distribution scheme for smart grid using elliptic curve cryptography. <i>IET Communications</i> , 2016, 10, 1795-1802.	2.2	107
43	An efficient phishing webpage detector. <i>Expert Systems With Applications</i> , 2011, 38, 12018-12027.	7.6	98
44	A review on remote data auditing in single cloud server: Taxonomy and open issues. <i>Journal of Network and Computer Applications</i> , 2014, 43, 121-141.	9.1	95
45	DCAP: A Secure and Efficient Decentralized Conditional Anonymous Payment System Based on Blockchain. <i>IEEE Transactions on Information Forensics and Security</i> , 2020, 15, 2440-2452.	6.9	91
46	Secure and dependable software defined networks. <i>Journal of Network and Computer Applications</i> , 2016, 61, 199-221.	9.1	89
47	Intrusion response systems: Foundations, design, and challenges. <i>Journal of Network and Computer Applications</i> , 2016, 62, 53-74.	9.1	85
48	Secure Authentication Scheme for Medicine Anti-Counterfeiting System in IoT Environment. <i>IEEE Internet of Things Journal</i> , 2017, 4, 1634-1646.	8.7	85
49	Cryptanalysis and improvement of a robust smartcard-based remote user password authentication scheme. <i>International Journal of Communication Systems</i> , 2014, 27, 3939-3955.	2.5	84
50	Efficient Certificateless Aggregate Signature With Conditional Privacy Preservation in IoV. <i>IEEE Systems Journal</i> , 2021, 15, 245-256.	4.6	84
51	Cryptanalysis and Improvement of Authentication and Key Agreement Protocols for Telecare Medicine Information Systems. <i>Journal of Medical Systems</i> , 2014, 38, 135.	3.6	83
52	A hybrid particle swarm optimization algorithm for high-dimensional problems. <i>Computers and Industrial Engineering</i> , 2011, 61, 1117-1122.	6.3	81
53	A hybrid forecasting model for enrollments based on aggregated fuzzy time series and particle swarm optimization. <i>Expert Systems With Applications</i> , 2011, 38, 8014-8023.	7.6	78
54	A Lightweight Authenticated Encryption Scheme Based on Chaotic SCML for Railway Cloud Service. <i>IEEE Access</i> , 2018, 6, 711-722.	4.2	78

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55	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.	3.6	77
56	Copyright Protection for E-Government Document Images. <i>IEEE MultiMedia</i> , 2012, 19, 62-73.	1.7	75
57	An enhanced privacy preserving remote user authentication scheme with provable security. <i>Security and Communication Networks</i> , 2015, 8, 3782-3795.	1.5	75
58	A lightweight anonymous authentication scheme for consumer roaming in ubiquitous networks with provable security. <i>International Journal of Communication Systems</i> , 2017, 30, e3019.	2.5	75
59	A Standard Mutual Authentication Protocol for Cloud Computing Based Health Care System. <i>Journal of Medical Systems</i> , 2017, 41, 50.	3.6	75
60	Pairing-based CP-ABE with constant-size ciphertexts and secret keys for cloud environment. <i>Computer Standards and Interfaces</i> , 2017, 54, 3-9.	5.4	74
61	Expressive CP-ABE Scheme for Mobile Devices in IoT Satisfying Constant-Size Keys and Ciphertexts. <i>IEEE Access</i> , 2017, 5, 3273-3283.	4.2	74
62	Cryptanalysis and Improvement of Yan et al.'s Biometric-Based Authentication Scheme for Telecare Medicine Information Systems. <i>Journal of Medical Systems</i> , 2014, 38, 24.	3.6	73
63	An adaptive watermarking scheme for e-government document images. <i>Multimedia Tools and Applications</i> , 2014, 72, 3085-3103.	3.9	71
64	A reliable Internet of Things based architecture for oil and gas industry. , 2017, , .		71
65	Attribute-based data access control in mobile cloud computing: Taxonomy and open issues. <i>Future Generation Computer Systems</i> , 2017, 72, 273-287.	7.5	71
66	Security Enhancement of a Biometric based Authentication Scheme for Telecare Medicine Information Systems with Nonce. <i>Journal of Medical Systems</i> , 2014, 38, 41.	3.6	70
67	Cloud resource allocation schemes: review, taxonomy, and opportunities. <i>Knowledge and Information Systems</i> , 2017, 50, 347-381.	3.2	70
68	A novel and provably secure authentication and key agreement scheme with user anonymity for global mobility networks. <i>Security and Communication Networks</i> , 2016, 9, 3527-3542.	1.5	69
69	An improved smart card based authentication scheme for session initiation protocol. <i>Peer-to-Peer Networking and Applications</i> , 2017, 10, 92-105.	3.9	68
70	Certificateless searchable public key encryption scheme for mobile healthcare system. <i>Computers and Electrical Engineering</i> , 2018, 65, 413-424.	4.8	67
71	Trust and reputation for Internet of Things: Fundamentals, taxonomy, and open research challenges. <i>Journal of Network and Computer Applications</i> , 2019, 145, 102409.	9.1	66
72	Ransomware: Recent advances, analysis, challenges and future research directions. <i>Computers and Security</i> , 2021, 111, 102490.	6.0	64

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73	Two-Directional Two-Dimensional Random Projection and Its Variations for Face and Palmprint Recognition. Lecture Notes in Computer Science, 2011, , 458-470.	1.3	62
74	Cryptanalysis and Improvement of "A Privacy Enhanced Scheme for Telecare Medical Information Systems"™. Journal of Medical Systems, 2013, 37, 9952.	3.6	62
75	An Improved and Secure Biometric Authentication Scheme for Telecare Medicine Information Systems Based on Elliptic Curve Cryptography. Journal of Medical Systems, 2015, 39, 175.	3.6	62
76	Smart Environment as a Service: Three Factor Cloud Based User Authentication for Telecare Medical Information System. Journal of Medical Systems, 2014, 38, 9997.	3.6	61
77	EPA-CPPA: An efficient, provably-secure and anonymous conditional privacy-preserving authentication scheme for vehicular ad hoc networks. Vehicular Communications, 2018, 13, 104-113.	4.0	61
78	Chaotic secure content-based hidden transmission of biometric templates. Chaos, Solitons and Fractals, 2007, 32, 1749-1759.	5.1	60
79	Cryptanalysis and Enhancement of Anonymity Preserving Remote User Mutual Authentication and Session Key Agreement Scheme for E-Health Care Systems. Journal of Medical Systems, 2015, 39, 140.	3.6	60
80	Man-At-The-End attacks: Analysis, taxonomy, human aspects, motivation and future directions. Journal of Network and Computer Applications, 2015, 48, 44-57.	9.1	59
81	A New Transitively Closed Undirected Graph Authentication Scheme for Blockchain-Based Identity Management Systems. IEEE Access, 2018, 6, 28203-28212.	4.2	58
82	An Authentication Scheme for Secure Access to Healthcare Services. Journal of Medical Systems, 2013, 37, 9954.	3.6	57
83	Consumer, Commercial, and Industrial IoT (In)Security: Attack Taxonomy and Case Studies. IEEE Internet of Things Journal, 2022, 9, 199-221.	8.7	57
84	Amassing the Security: An ECC-Based Authentication Scheme for Internet of Drones. IEEE Systems Journal, 2021, 15, 4431-4438.	4.6	57
85	Interactive Artificial Bee Colony Supported Passive Continuous Authentication System. IEEE Systems Journal, 2014, 8, 395-405.	4.6	55
86	Binary Artificial Bee Colony optimization using bitwise operation. Computers and Industrial Engineering, 2014, 76, 360-365.	6.3	54
87	Anonymous and provably secure certificateless multireceiver encryption without bilinear pairing. Security and Communication Networks, 2015, 8, 2214-2231.	1.5	54
88	A secure chaotic map-based remote authentication scheme for telecare medicine information systems. Future Generation Computer Systems, 2018, 84, 149-159.	7.5	54
89	A blind reversible method for watermarking relational databases based on a time-stamping protocol. Expert Systems With Applications, 2012, 39, 3185-3196.	7.6	53
90	Questioning Key Compromise Attack on Ostad-Sharif et al.'s™s Authentication and Session key Generation Scheme for Healthcare Applications. IEEE Access, 2019, 7, 39717-39720.	4.2	53

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91	From smart parking towards autonomous valet parking: A survey, challenges and future Works. Journal of Network and Computer Applications, 2021, 175, 102935.	9.1	53
92	Security and Privacy in IoT Smart Healthcare. IEEE Internet Computing, 2021, 25, 37-48.	3.3	53
93	A framework for preservation of cloud usersâ€™ data privacy using dynamic reconstruction of metadata. Journal of Network and Computer Applications, 2013, 36, 235-248.	9.1	52
94	A remote cancelable palmprint authentication protocol based on multi-directional two-dimensional PalmPhasorâ€™fusion. Security and Communication Networks, 2014, 7, 1860-1871.	1.5	52
95	Comprehensive Review of Cybercrime Detection Techniques. IEEE Access, 2020, 8, 137293-137311.	4.2	51
96	Proof of X-repute blockchain consensus protocol for IoT systems. Computers and Security, 2020, 95, 101871.	6.0	51
97	A blind image copyright protection scheme for e-government. Journal of Visual Communication and Image Representation, 2013, 24, 1099-1105.	2.8	50
98	Design of sinkhole node detection mechanism for hierarchical wireless sensor networks. Security and Communication Networks, 2016, 9, 4596-4614.	1.5	50
99	On Emerging Family of Elliptic Curves to Secure Internet of Things: ECC Comes of Age. IEEE Transactions on Dependable and Secure Computing, 2016, , 1-1.	5.4	50
100	More secure smart cardâ€™based remote user password authentication scheme with user anonymity. Security and Communication Networks, 2014, 7, 2039-2053.	1.5	49
101	RSEAP: RFID based secure and efficient authentication protocol for vehicular cloud computing. Vehicular Communications, 2020, 22, 100213.	4.0	49
102	Analysis of correlation of 2DPalmHash Code and orientation range suitable for transposition. Neurocomputing, 2014, 131, 377-387.	5.9	47
103	Designing Anonymous Signature-Based Authenticated Key Exchange Scheme for Internet of Things-Enabled Smart Grid Systems. IEEE Transactions on Industrial Informatics, 2021, 17, 4425-4436.	11.3	47
104	An Improved Remote User Authentication Scheme Using Elliptic Curve Cryptography. Wireless Personal Communications, 2017, 96, 5355-5373.	2.7	46
105	More efficient key-hash based fingerprint remote authentication scheme using mobile device. Computing (Vienna/New York), 2014, 96, 793-816.	4.8	45
106	Cloud monitoring: A review, taxonomy, and open research issues. Journal of Network and Computer Applications, 2017, 98, 11-26.	9.1	44
107	Toward Secure Software Defined Vehicular Networks: Taxonomy, Requirements, and Open Issues. , 2017, 55, 110-118.		44
108	A Dynamic ID-Based Generic Framework for Anonymous Authentication Scheme for Roaming Service in Global Mobility Networks. Wireless Personal Communications, 2017, 93, 383-407.	2.7	44

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109	Emerging IoT Applications in Sustainable Smart Cities for COVID-19: Network Security and Data Preservation Challenges with Future Directions. <i>Sustainable Cities and Society</i> , 2021, 75, 103311.	10.4	44
110	Advanced Dynamic Channel Access Strategy in Spectrum Sharing 5G Systems. <i>IEEE Wireless Communications</i> , 2017, 24, 74-80.	9.0	43
111	An efficient wavelet-tree-based watermarking method. <i>Expert Systems With Applications</i> , 2011, 38, 14357-14366.	7.6	42
112	A Provably Secure RFID Authentication Protocol Based on Elliptic Curve for Healthcare Environments. <i>Journal of Medical Systems</i> , 2016, 40, 165.	3.6	42
113	Comprehensive Survey on Big Data Privacy Protection. <i>IEEE Access</i> , 2020, 8, 20067-20079.	4.2	42
114	Challenge-response-based biometric image scrambling for secure personal identification. <i>Future Generation Computer Systems</i> , 2011, 27, 411-418.	7.5	41
115	Digital multimedia audio forensics: past, present and future. <i>Multimedia Tools and Applications</i> , 2018, 77, 1009-1040.	3.9	41
116	Chaos and NDFT-based spread spectrum concealing of fingerprint-biometric data into audio signals. , 2010, 20, 179-190.		40
117	ABC-PSO for vertical handover in heterogeneous wireless networks. <i>Neurocomputing</i> , 2017, 256, 63-81.	5.9	40
118	A provably secure biometrics-based authenticated key agreement scheme for multi-server environments. <i>Multimedia Tools and Applications</i> , 2018, 77, 2359-2389.	3.9	40
119	Private blockchain-envisioned multi-authority CP-ABE-based user access control scheme in IIoT. <i>Computer Communications</i> , 2021, 169, 99-113.	5.1	40
120	Trust Management in Social Internet of Things: Architectures, Recent Advancements, and Future Challenges. <i>IEEE Internet of Things Journal</i> , 2021, 8, 7768-7788.	8.7	40
121	An Efficient and Practical Fingerprint-Based Remote User Authentication Scheme with Smart Cards. <i>Lecture Notes in Computer Science</i> , 2006, , 260-268.	1.3	39
122	Multimodal face and fingerprint biometrics authentication on space-limited tokens. <i>Neurocomputing</i> , 2008, 71, 3026-3031.	5.9	39
123	Towards next-generation heterogeneous mobile data stream mining applications: Opportunities, challenges, and future research directions. <i>Journal of Network and Computer Applications</i> , 2017, 79, 1-24.	9.1	39
124	An enhanced lightweight anonymous biometric based authentication scheme for TMIS. <i>Multimedia Tools and Applications</i> , 2018, 77, 5503-5524.	3.9	39
125	A survey on software defined networking enabled smart buildings: Architecture, challenges and use cases. <i>Journal of Network and Computer Applications</i> , 2019, 137, 62-77.	9.1	39
126	Dissecting bitcoin blockchain: Empirical analysis of bitcoin network (2009â€“2020). <i>Journal of Network and Computer Applications</i> , 2021, 177, 102940.	9.1	39

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127	SMARTbot: A Behavioral Analysis Framework Augmented with Machine Learning to Identify Mobile Botnet Applications. PLoS ONE, 2016, 11, e0150077.	2.5	39
128	A Novel Chaotic Maps-Based User Authentication and Key Agreement Protocol for Multi-server Environments with Provable Security. Wireless Personal Communications, 2016, 89, 569-597.	2.7	38
129	A more secure and privacy-aware anonymous user authentication scheme for distributed mobile cloud computing environments. Security and Communication Networks, 2016, 9, 4650-4666.	1.5	37
130	A Two-Factor RSA-Based Robust Authentication System for Multiserver Environments. Security and Communication Networks, 2017, 2017, 1-15.	1.5	37
131	MTPSO algorithm for solving planar graph coloring problem. Expert Systems With Applications, 2011, 38, 5525-5531.	7.6	36
132	A Comprehensive Study of Email Spam Botnet Detection. IEEE Communications Surveys and Tutorials, 2015, 17, 2271-2295.	39.4	36
133	Design and Analysis of an Enhanced Patient-Server Mutual Authentication Protocol for Telecare Medical Information System. Journal of Medical Systems, 2015, 39, 137.	3.6	36
134	Efficient RFID Authentication Using Elliptic Curve Cryptography for the Internet of Things. Wireless Personal Communications, 2017, 96, 5253-5266.	2.7	36
135	Fog Computing Over IoT: A Secure Deployment and Formal Verification. IEEE Access, 2017, 5, 27132-27144.	4.2	36
136	Data and Privacy: Getting Consumers to Trust Products Enabled by the Internet of Things. IEEE Consumer Electronics Magazine, 2019, 8, 35-38.	2.3	36
137	An Improved User Authentication Protocol for Healthcare Services via Wireless Medical Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 347169.	2.2	35
138	Software-Defined Network Forensics: Motivation, Potential Locations, Requirements, and Challenges. IEEE Network, 2016, 30, 6-13.	6.9	35
139	A Multiserver Biometric Authentication Scheme for TMIS using Elliptic Curve Cryptography. Journal of Medical Systems, 2016, 40, 230.	3.6	35
140	Towards native code offloading based MCC frameworks for multimedia applications: A survey. Journal of Network and Computer Applications, 2016, 75, 335-354.	9.1	34
141	Authentication Protocols for Implantable Medical Devices: Taxonomy, Analysis and Future Directions. IEEE Consumer Electronics Magazine, 2018, 7, 57-65.	2.3	34
142	Rigorous Analysis and Evaluation of Specific Absorption Rate (SAR) for Mobile Multimedia Healthcare. IEEE Access, 2018, 6, 29602-29610.	4.2	34
143	An efficient certificateless aggregate signature scheme for the Internet of Vehicles. Transactions on Emerging Telecommunications Technologies, 2020, 31, e3708.	3.9	34
144	An Improved Biometrics-Based Remote User Authentication Scheme with User Anonymity. BioMed Research International, 2013, 2013, 1-9.	1.9	32

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145	Robust three-factor remote user authentication scheme with key agreement for multimedia systems. Security and Communication Networks, 2016, 9, 1916-1927.	1.5	32
146	On-Demand Hybrid Routing for Cognitive Radio Ad-Hoc Network. IEEE Access, 2016, 4, 8294-8302.	4.2	32
147	Cross-VM cache-based side channel attacks and proposed prevention mechanisms: A survey. Journal of Network and Computer Applications, 2017, 93, 259-279.	9.1	32
148	On the design of a secure user authentication and key agreement scheme for wireless sensor networks. Concurrency Computation Practice and Experience, 2017, 29, e3930.	2.2	32
149	Communal Acts of IoT Consumers: A Potential Threat to Security and Privacy. IEEE Transactions on Consumer Electronics, 2019, 65, 64-72.	3.6	32
150	ECC-CoAP: Elliptic Curve Cryptography Based Constraint Application Protocol for Internet of Things. Wireless Personal Communications, 2021, 116, 1867-1896.	2.7	32
151	Resource Efficient Geo-Textual Hierarchical Clustering Framework for Social IoT Applications. IEEE Sensors Journal, 2021, 21, 25114-25122.	4.7	32
152	Using Sorted Switching Median Filter to remove high-density impulse noises. Journal of Visual Communication and Image Representation, 2013, 24, 956-967.	2.8	31
153	An improved timestamp-based password authentication scheme: comments, cryptanalysis, and improvement. Security and Communication Networks, 2014, 7, 1921-1932.	1.5	31
154	An Efficient Remote User Authentication with Key Agreement Scheme Using Elliptic Curve Cryptography. Wireless Personal Communications, 2015, 85, 225-240.	2.7	31
155	Design and analysis of a chaotic maps-based three-party authenticated key agreement protocol. Nonlinear Dynamics, 2015, 80, 1209-1220.	5.2	31
156	Towards Dynamic Remote Data Auditing in Computational Clouds. Scientific World Journal, The, 2014, 2014, 1-12.	2.1	30
157	An enhanced multi-server authentication protocol using password and smartcard: cryptanalysis and design. Security and Communication Networks, 2016, 9, 4615-4638.	1.5	30
158	A software agent enabled biometric security algorithm for secure file access in consumer storage devices. IEEE Transactions on Consumer Electronics, 2017, 63, 53-61.	3.6	30
159	Energy Management in RFID-Sensor Networks: Taxonomy and Challenges. IEEE Internet of Things Journal, 2019, 6, 250-266.	8.7	30
160	Situation-Aware Deep Reinforcement Learning Link Prediction Model for Evolving Criminal Networks. IEEE Access, 2020, 8, 16550-16559.	4.2	30
161	Robust Hiding of Fingerprint-Biometric Data into Audio Signals. Lecture Notes in Computer Science, 2007, , 702-712.	1.3	29
162	MHADBOR: AI-Enabled Administrative-Distance-Based Opportunistic Load Balancing Scheme for an Agriculture Internet of Things Network. IEEE Micro, 2022, 42, 41-50.	1.8	29

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163	A key agreement algorithm with rekeying for wireless sensor networks using public key cryptography. , 2010, , .		28
164	Cryptanalysis and Improvement of "An Efficient and Secure Dynamic ID-based Authentication Scheme for Telecare Medical Information Systems" Security and Communication Networks, 2014, 7, 399-408.	1.5	28
165	Link Prediction in Time-Evolving Criminal Network With Deep Reinforcement Learning Technique. IEEE Access, 2019, 7, 184797-184807.	4.2	28
166	Sensor Cloud Frameworks: State-of-the-Art, Taxonomy, and Research Issues. IEEE Sensors Journal, 2021, 21, 22347-22370.	4.7	28
167	Mobile one-time passwords: two-factor authentication using mobile phones. Security and Communication Networks, 2012, 5, 508-516.	1.5	27
168	When social objects collaborate: Concepts, processing elements, attacks and challenges. Computers and Electrical Engineering, 2017, 58, 397-411.	4.8	27
169	Improving the Software-Defined Wireless Sensor Networks Routing Performance Using Reinforcement Learning. IEEE Internet of Things Journal, 2022, 9, 3495-3508.	8.7	27
170	Geographic Wormhole Detection in Wireless Sensor Networks. PLoS ONE, 2015, 10, e0115324.	2.5	26
171	A new handover authentication protocol based on bilinear pairing functions for wireless networks. International Journal of Ad Hoc and Ubiquitous Computing, 2015, 18, 67.	0.5	26
172	A robust provable-secure privacy-preserving authentication protocol for Industrial Internet of Things. Peer-to-Peer Networking and Applications, 2021, 14, 1548-1571.	3.9	26
173	Design of a user anonymous password authentication scheme without smart card. International Journal of Communication Systems, 2016, 29, 441-458.	2.5	25
174	An enhanced mutual authentication and key agreement scheme for mobile user roaming service in global mobility networks. Annales Des Telecommunications/Annals of Telecommunications, 2017, 72, 131-144.	2.5	25
175	Provably Secure and Anonymous Password Authentication Protocol for Roaming Service in Global Mobility Networks Using Extended Chaotic Maps. Wireless Personal Communications, 2015, 84, 2013-2034.	2.7	24
176	Distance-Based and Low Energy Adaptive Clustering Protocol for Wireless Sensor Networks. PLoS ONE, 2016, 11, e0161340.	2.5	24
177	An efficient authentication and key agreement scheme with user anonymity for roaming service in smart city. Personal and Ubiquitous Computing, 2017, 21, 791-805.	2.8	24
178	Analysis of Vector Code Offloading Framework in Heterogeneous Cloud and Edge Architectures. IEEE Access, 2017, 5, 24542-24554.	4.2	24
179	Optimizing the Lifetime of Software Defined Wireless Sensor Network via Reinforcement Learning. IEEE Access, 2021, 9, 259-272.	4.2	24
180	ASCP-IoMT: AI-Enabled Lightweight Secure Communication Protocol for Internet of Medical Things. IEEE Access, 2022, 10, 57990-58004.	4.2	24

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181	Identity-based online/offline signcryption for low power devices. Journal of Network and Computer Applications, 2012, 35, 340-347.	9.1	23
182	Provably secure and pairing-free identity-based handover authentication protocol for wireless mobile networks. International Journal of Communication Systems, 2016, 29, 2442-2456.	2.5	23
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