Pandi Vijayakumar

List of Publications by Year
in descending order

126 papers	4,162 citations	117625 34 h-index	138484 58 g-index
128 all docs	128 docs citations	128 times ranked	2651 citing authors

#	Article	IF	Citations
1	EAAP: Efficient Anonymous Authentication With Conditional Privacy-Preserving Scheme for Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2467-2476.	8.0	337
2	Dual Authentication and Key Management Techniques for Secure Data Transmission in Vehicular Ad Hoc Networks. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 1015-1028.	8.0	243
3	Comprehensive survey on security services in vehicular <i>ad‑hoc</i> networks. IET Intelligent Transport Systems, 2016, 10, 379-388.	3.0	163
4	Computationally efficient privacy preserving anonymous mutual and batch authentication schemes for vehicular ad hoc networks. Future Generation Computer Systems, 2018, 78, 943-955.	7.5	154
5	A robust and efficient password-based conditional privacy preserving authentication and group-key agreement protocol for VANETs. Future Generation Computer Systems, 2018, 84, 216-227.	7.5	135
6	HomeChain: A Blockchain-Based Secure Mutual Authentication System for Smart Homes. IEEE Internet of Things Journal, 2020, 7, 818-829.	8.7	124
7	Provably Secure Identity-Based Signcryption Scheme for Crowdsourced Industrial Internet of Things Environments. IEEE Internet of Things Journal, 2018, 5, 2904-2914.	8.7	111
8	Efficient and Secure Anonymous Authentication With Location Privacy for IoT-Based WBANs. IEEE Transactions on Industrial Informatics, 2020, 16, 2603-2611.	11.3	101
9	A Lightweight Privacy-Preserving Authentication Protocol for VANETs. IEEE Systems Journal, 2020, 14, 3547-3557.	4.6	93
10	A Novel UAV-Enabled Data Collection Scheme for Intelligent Transportation System Through UAV Speed Control. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2100-2110.	8.0	91
11	Blockchain-Based Mutual-Healing Group Key Distribution Scheme in Unmanned Aerial Vehicles Ad-Hoc Network. IEEE Transactions on Vehicular Technology, 2019, 68, 11309-11322.	6.3	84
12	Computationally efficient privacy preserving authentication and key distribution techniques for vehicular ad hoc networks. Cluster Computing, 2017, 20, 2439-2450.	5.0	83
13	Chinese remainder Theorem based centralised group key management for secure multicast communication. IET Information Security, 2014, 8, 179-187.	1.7	72
14	Secure Multifactor Authenticated Key Agreement Scheme for Industrial IoT. IEEE Internet of Things Journal, 2021, 8, 3801-3811.	8.7	72
15	Efficient authentication protocol for secure multimedia communications in IoT-enabled wireless sensor networks. Multimedia Tools and Applications, 2018, 77, 18295-18325.	3.9	69
16	Secure Real-Time Traffic Data Aggregation With Batch Verification for Vehicular Cloud in VANETs. IEEE Transactions on Vehicular Technology, 2020, 69, 807-817.	6.3	68
17	A Novel Three-Factor Authentication Protocol for Wireless Sensor Networks With IoT Notion. IEEE Systems Journal, 2021, 15, 1120-1129.	4.6	68
18	Blockchain-based batch authentication protocol for Internet of Vehicles. Journal of Systems Architecture, 2021, 113, 101877.	4.3	66

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19	COVID-19: Automatic Detection of the Novel Coronavirus Disease From CT Images Using an Optimized Convolutional Neural Network. IEEE Transactions on Industrial Informatics, 2021, 17, 6480-6488.	11.3	65
20	A practical group blind signature scheme for privacy protection in smart grid. Journal of Parallel and Distributed Computing, 2020, 136, 29-39.	4.1	59
21	Time efficient secure DNA based access control model for cloud computing environment. Future Generation Computer Systems, 2017, 73, 90-105.	7.5	54
22	Centralized key distribution protocol using the greatest common divisor method. Computers and Mathematics With Applications, 2013, 65, 1360-1368.	2.7	52
23	An Anonymous Batch Authentication and Key Exchange Protocols for 6G Enabled VANETs. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 1630-1638.	8.0	52
24	A Privacy-Preserving and Untraceable Group Data Sharing Scheme in Cloud Computing. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 2198-2210.	5.4	46
25	Blockchain-Based Secure Data Storage Protocol for Sensors in the Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2022, 18, 5422-5431.	11.3	46
26	Deep neural network based anomaly detection in Internet of Things network traffic tracking for the applications of future smart cities. Transactions on Emerging Telecommunications Technologies, 2021, 32, e4121.	3.9	46
27	An intelligent temporal pattern classification system using fuzzy temporal rules and particle swarm optimization. Sadhana - Academy Proceedings in Engineering Sciences, 2014, 39, 283-302.	1.3	44
28	A Provably Secure and Lightweight Identity-Based Two-Party Authenticated Key Agreement Protocol for IIoT Environments. IEEE Systems Journal, 2021, 15, 1732-1741.	4.6	44
29	An efficient anonymous authentication and confidentiality preservation schemes for secure communications in wireless body area networks. Wireless Networks, 2021, 27, 2119-2130.	3.0	43
30	Achieving Privacy-Preserving DSSE for Intelligent IoT Healthcare System. IEEE Transactions on Industrial Informatics, 2022, 18, 2010-2020.	11.3	42
31	Homomorphic Encryption-Based Privacy-Preserving Federated Learning in IoT-Enabled Healthcare System. IEEE Transactions on Network Science and Engineering, 2023, 10, 2864-2880.	6.4	39
32	A provably secure password-based anonymous authentication scheme for wireless body area networks. Computers and Electrical Engineering, 2018, 65, 322-331.	4.8	38
33	The Application of the Blockchain Technology in Voting Systems. ACM Computing Surveys, 2022, 54, 1-28.	23.0	38
34	Detection of Low-Frequency and Multi-Stage Attacks in Industrial Internet of Things. IEEE Transactions on Vehicular Technology, 2020, 69, 8820-8831.	6.3	37
35	Efficient and Provably Secure Multireceiver Signcryption Scheme for Multicast Communication in Edge Computing. IEEE Internet of Things Journal, 2020, 7, 6056-6068.	8.7	36
36	An efficient secure communication for healthcare system using wearable devices. Computers and Electrical Engineering, 2017, 63, 232-245.	4.8	35

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37	A Provably Secure Three-Factor Session Initiation Protocol for Multimedia Big Data Communications. IEEE Internet of Things Journal, 2018, 5, 3408-3418.	8.7	35
38	Privacy-Preserving Implicit Authentication Protocol Using Cosine Similarity for Internet of Things. IEEE Internet of Things Journal, 2021, 8, 5599-5606.	8.7	34
39	The Role of Internet of Things to Control the Outbreak of COVID-19 Pandemic. IEEE Internet of Things Journal, 2021, 8, 16072-16082.	8.7	34
40	A Novel Lightweight Authentication Protocol for Emergency Vehicle Avoidance in VANETs. IEEE Internet of Things Journal, 2021, 8, 14248-14257.	8.7	34
41	An Intelligent Terminal Based Privacy-Preserving Multi-Modal Implicit Authentication Protocol for Internet of Connected Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3939-3951.	8.0	31
42	Intelligent Secure Ecosystem Based on Metaheuristic and Functional Link Neural Network for Edge of Things. IEEE Transactions on Industrial Informatics, 2020, 16, 1947-1956.	11.3	30
43	CPAV: Computationally Efficient Privacy Preserving Anonymous Authentication Scheme for Vehicular Ad Hoc Networks. , 2015, , .		29
44	Efficient Certificateless Conditional Privacy-Preserving Authentication for VANETs. IEEE Transactions on Vehicular Technology, 2022, 71, 7863-7875.	6.3	29
45	Fuzzy-logic based learning style prediction in e-learning using web interface information. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 379-394.	1.3	27
46	An efficient group key agreement protocol for secure P2P communication. Security and Communication Networks, 2016, 9, 3952-3965.	1.5	27
47	BUA: A Blockchain-based Unlinkable Authentication in VANETs. , 2020, , .		26
48	A Dependable Time Series Analytic Framework for Cyber-Physical Systems of IoT-based Smart Grid. ACM Transactions on Cyber-Physical Systems, 2019, 3, 1-18.	2.5	25
49	Efficient NTRU Lattice-Based Certificateless Signature Scheme for Medical Cyber-Physical Systems. Journal of Medical Systems, 2020, 44, 92.	3.6	25
50	AI-Enabled Blockchain-Based Access Control for Malicious Attacks Detection and Mitigation in IoE. IEEE Consumer Electronics Magazine, 2021, 10, 82-92.	2.3	25
51	An Unlinkable Authenticated Key Agreement With Collusion Resistant for VANETs. IEEE Transactions on Vehicular Technology, 2021, 70, 7992-8006.	6.3	25
52	MUD-Based Behavioral Profiling Security Framework for Software-Defined IoT Networks. IEEE Internet of Things Journal, 2022, 9, 6611-6622.	8.7	23
53	Human-in-the-Loop-Aided Privacy-Preserving Scheme for Smart Healthcare. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 6-15.	4.9	22
54	Efficient Identity-Based Distributed Decryption Scheme for Electronic Personal Health Record Sharing System. IEEE Journal on Selected Areas in Communications, 2021, 39, 384-395.	14.0	22

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55	A Verifiable Privacy-Preserving Machine Learning Prediction Scheme for Edge-Enhanced HCPSs. IEEE Transactions on Industrial Informatics, 2022, 18, 5494-5503.	11.3	22
56	An efficient anonymous authentication and key agreement scheme with privacy-preserving for smart cities. International Journal of Distributed Sensor Networks, 2021, 17, 155014772110268.	2.2	22
57	Certificateless Public Auditing Scheme With Data Privacy and Dynamics in Group User Model of Cloud-Assisted Medical WSNs. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 2334-2344.	6.3	21
58	A PUFâ€based lightweight authentication and key agreement protocol for smart UAV networks. IET Communications, 2022, 16, 1142-1159.	2.2	20
59	An effective key distribution for secure internet payâ€TV using access key hierarchies. Security and Communication Networks, 2016, 9, 5085-5097.	1.5	19
60	Rotation based secure multicast key management for batch rekeying operations. Networking Science, 2012, 1, 39-47.	1.2	18
61	A new SmartSMS protocol for secure SMS communication in m-health environment. Computers and Electrical Engineering, 2018, 65, 265-281.	4.8	18
62	An Anonymous Pre-Authentication and Post-Authentication Scheme Assisted by Cloud for Medical IoT Environments. IEEE Transactions on Network Science and Engineering, 2022, 9, 3633-3642.	6.4	18
63	A location-based privacy-preserving oblivious sharing scheme for indoor navigation. Future Generation Computer Systems, 2022, 137, 42-52.	7.5	18
64	Secure big data communication for energy efficient intra-cluster in WSNs. Information Sciences, 2019, 505, 586-599.	6.9	17
65	A Mobile Intelligent Terminal Based Anonymous Authenticated Key Exchange Protocol for Roaming Service in Global Mobility Networks. IEEE Transactions on Sustainable Computing, 2020, 5, 268-278.	3.1	16
66	COVID_SCREENET: COVID-19 Screening in Chest Radiography Images Using Deep Transfer Stacking. Information Systems Frontiers, 2021, 23, 1369-1383.	6.4	16
67	Edge-Assisted Intelligent Device Authentication in Cyberâ€"Physical Systems. IEEE Internet of Things Journal, 2023, 10, 3057-3070.	8.7	16
68	Data accessing based on the popularity value for cloud computing. , 2017, , .		15
69	Efficient data integrity auditing with corrupted data recovery for edge computing in enterprise multimedia security. Multimedia Tools and Applications, 2020, 79, 10851-10870.	3.9	15
70	IoT-Enabled Light Intensity-Controlled Seamless Highway Lighting System. IEEE Systems Journal, 2021, 15, 46-55.	4.6	15
71	Profile Matching for IoMT: A Verifiable Private Set Intersection Scheme. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3794-3803.	6.3	15
72	An Efficient Vehicle-Assisted Aggregate Authentication Scheme for Infrastructure-Less Vehicular Networks. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 15590-15600.	8.0	15

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73	A robust and efficient bilinear pairing based mutual authentication and session key verification over insecure communication. Multimedia Tools and Applications, 2018, 77, 11041-11066.	3.9	14
74	Privacy-Protection Scheme Based on Sanitizable Signature for Smart Mobile Medical Scenarios. Wireless Communications and Mobile Computing, 2020, 2020, 1-10.	1.2	14
75	A novel proxy-oriented public auditing scheme for cloud-based medical cyber physical systems. Journal of Information Security and Applications, 2020, 51, 102453.	2.5	14
76	Security preservation in industrial medical CPS using Chebyshev map: An AI approach. Future Generation Computer Systems, 2021, 122, 52-62.	7.5	14
77	Secure Edge-Aided Computations for Social Internet-of-Things Systems. IEEE Transactions on Computational Social Systems, 2022, 9, 76-87.	4.4	14
78	Attribute-Based Secure Data Aggregation for Isolated IoT-Enabled Maritime Transportation Systems. IEEE Transactions on Intelligent Transportation Systems, 2021, , 1-10.	8.0	14
79	Machine learning and smart card based two-factor authentication scheme for preserving anonymity in telecare medical information system (TMIS). Neural Computing and Applications, 2023, 35, 5055-5080.	5.6	13
80	Efficient Multi-keyword Search over Encrypted Data in Untrusted Cloud Environment. , 2017, , .		12
81	Blockchain Based Architecture and Solution for Secure Digital Payment System. , 2021, , .		12
82	Deep Reinforcement Learning-Based Pedestrian and Independent Vehicle Safety Fortification Using Intelligent Perception. International Journal of Software Science and Computational Intelligence, 2022, 14, 1-33.	3.0	12
83	An Efficient Identity-Based Aggregate Signcryption Scheme With Blockchain for IoT-Enabled Maritime Transportation System. IEEE Transactions on Green Communications and Networking, 2022, 6, 1520-1531.	5.5	12
84	SAC-FIIoT: Secure Access Control Scheme for Fog-Based Industrial Internet of Things. , 2020, , .		11
85	A Flexible and Privacy-Preserving Collaborative Filtering Scheme in Cloud Computing for VANETs. ACM Transactions on Internet Technology, 2022, 22, 1-19.	4.4	11
86	An effective key distribution protocol for secure multicast communication. , 2010, , .		9
87	Efficient privacy-preserving anonymous authentication scheme for human predictive online education system. Cluster Computing, 0, , 1.	5.0	9
88	Multifunctional and Multidimensional Secure Data Aggregation Scheme in WSNs. IEEE Internet of Things Journal, 2022, 9, 2657-2668.	8.7	9
89	A Secure Key Distribution Protocol for Multicast Communication. Communications in Computer and Information Science, 2011, , 249-257.	0.5	9
90	TC-PSLAP: Temporal Credential-Based Provably Secure and Lightweight Authentication Protocol for IoT-Enabled Drone Environments. Security and Communication Networks, 2021, 2021, 1-10.	1.5	9

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91	Anonymous and expeditious mobile user authentication scheme for GLOMONET environments. International Journal of Communication Systems, 2018, 31, e3461.	2.5	8
92	Secure Online Examination System for e-learning. , 2019, , .		8
93	Sustainable Computing Based Deep Learning Framework for Writing Research Manuscripts. IEEE Transactions on Sustainable Computing, 2019, 4, 4-16.	3.1	8
94	Intelligent e-learning system based on fuzzy logic. Neural Computing and Applications, 2020, 32, 7661-7670.	5.6	8
95	Secure deduplication for big data with efficient dynamic ownership updates. Computers and Electrical Engineering, 2021, 96, 107531.	4.8	8
96	A Secure Gesture Based Authentication Scheme to Unlock the Smartphones. , 2017, , .		7
97	Optimized traffic flow prediction based on cluster formation and reinforcement learning. International Journal of Communication Systems, 2023, 36, e4178.	2.5	7
98	Efficient Distributed Decryption Scheme for IoT Gateway-based Applications. ACM Transactions on Internet Technology, 2021, 21, 1-23.	4.4	7
99	Ultra-reliable secure data aggregation scheme with low latency for isolated terminals in 5G and beyond defined STINs. Computer Standards and Interfaces, 2021, 77, 103512.	5.4	7
100	AKN-FGD: Adaptive Kohonen Network Based Fine-Grained Detection of LDoS Attacks. IEEE Transactions on Dependable and Secure Computing, 2023, 20, 273-287.	5.4	7
101	An Extensive Review and Possible Attack on the Privacy Preserving Ranked Multi-Keyword Search for Multiple Data Owners in Cloud Computing. , 2017, , .		6
102	Hierarchical Key Management Scheme for Securing Mobile Agents with Optimal Computation Time. Procedia Engineering, 2012, 38, 1432-1443.	1.2	5
103	A technical survey on various VDC request embedding techniques in Virtual Data Center. , 2015, , .		5
104	Mobile agent based secure internet business using access key hierarchy management scheme. Journal of Information and Optimization Sciences, 2017, 38, 233-258.	0.3	5
105	Nth Order Binary Encoding with Split-Protocol. International Journal of Rough Sets and Data Analysis, 2018, 5, 95-118.	1.0	5
106	MGPV: A novel and efficient scheme for secure data sharing among mobile users in the public cloud. Future Generation Computer Systems, 2019, 95, 560-569.	7.5	5
107	Medical decision support system using data mining. , 2021, , 93-119.		5
108	Anonymous Authentication for Secure Mobile Agent Based Internet Business. Circuits and Systems, 2016, 07, 1421-1429.	0.1	5

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109	Improved Harn Batch Digital Signature Algorithm for Multicast Authentication. Journal of Discrete Mathematical Sciences and Cryptography, 2014, 17, 435-442.	0.8	4
110	Forensic Detection for Image Operation Order: Resizing and Contrast Enhancement. Lecture Notes in Computer Science, 2017, , 570-580.	1.3	4
111	Dissection of the experimental outcome of split-protocol. International Journal of Advanced Intelligence Paradigms, 2018, 10, 23.	0.3	4
112	A Robust Anonymous Authentication Scheme using Biometrics for Digital Rights Management System. , 2021, , .		4
113	Service Chain Caching and Workload Scheduling in Mobile Edge Computing. IEEE Systems Journal, 2022, 16, 4389-4400.	4.6	4
114	Transformer anomaly detection based on timeâ€frequency domain softwareâ€hardware cooperative analysis. Transactions on Emerging Telecommunications Technologies, 2020, , e3865.	3.9	3
115	Key Distribution for Pay-TV System with Reduced Computation Cost Using XOR Operation. Lecture Notes in Computer Science, 2012, , 478-485.	1.3	3
116	Application of random matrix model in multiple abnormal sources detection and location based on PMU monitoring data in distribution network. IET Generation, Transmission and Distribution, 2020, 14, 6476-6483.	2.5	3
117	PAMI-Anonymous Password Authentication Protocol for Medical Internet of Things. , 2021, , .		3
118	A Graph-Based Mathematical Model for an Efficient Load Balancing and Fault Tolerance in Cloud Computing. , 2017, , .		2
119	Secure Protocol for Subscriber Identity Module. , 2017, , .		2
120	Security analysis on â€œmutual authentication scheme for multimedia medical information systemsâ€. Security and Privacy, 2019, 2, e67.	2.7	2
121	Multiscale deep network based multistep prediction of highâ€dimensional time series from power transmission systems. Transactions on Emerging Telecommunications Technologies, 2022, 33, e3890.	3.9	2
122	SEAT: Secure and Energy Efficient Anonymous Authentication With Trajectory Privacy-Preserving Scheme for Marine Traffic Management. IEEE Transactions on Green Communications and Networking, 2022, 6, 815-824.	5.5	2
123	Analysis of Measures to Achieve Resilience during Virtual Machine Interruptions in IaaS Cloud Service. , 2017, , .		1
124	Grouping Users for Quick Recommendations of Text Documents Based on Deep Neural Network. Lecture Notes in Computer Science, 2017, , 617-626.	1.3	1
125	Error Detection and Correction for Secure Multicast Key Distribution Protocol. Communications in Computer and Information Science, 2011, , 308-319.	0.5	0
126	Nondeterministic Evaluation Mechanism for User Recruitment in Mobile Crowd-Sensing. ACM Transactions on Sensor Networks, 2023, 19, 1-18.	3.6	0