

List of Projects in Network Security & Cryptography

S-Logix

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1. A Secure Privacy-Preserving Data Aggregation Scheme based on Bilinear ElGamal Cryptosystem for Remote Health Monitoring Systems, IEEE Access, June 2017 [NS2].
2. Revocable Identity-Based Access Control for Big Data with Verifiable Outsourced Computing, IEEE Transactions on Big Data, April 2017 [Java].
3. Attribute-Based Storage Supporting Secure Deduplication of Encrypted Data in Cloud, IEEE Transactions on Big Data, January 2017 [Java].
4. A Secure and Verifiable Access Control Scheme for Big Data Storage in Clouds, IEEE Transactions on Big Data, February 2017 [Java].
5. SGuard: A lightweight SDN safe-guard architecture for DoS attacks, China Communications, June 2017 [NS2].
6. Enhanced Architecture for Privacy Preserving Data Integration in a Medical Research Environment, IEEE Access, May 2017 [Java].
7. Novel Geometric Area Analysis Technique for Anomaly Detection using Trapezoidal Area Estimation on Large-Scale Networks, IEEE Transactions on Big Data, June 2017 [Java/Hadoop].
8. Big Data Based Security Analytics for Protecting Virtualized Infrastructures in Cloud Computing, IEEE Transactions on Big Data, June 2017 [Java/Hadoop].
9. NPP: A New Privacy-Aware Public Auditing Scheme for Cloud Data Sharing with Group Users, IEEE Transactions on Big Data, May 2017 [Java].
10. SEEN: A Selective Encryption Method to Ensure Confidentiality for Big Sensing Data Streams, IEEE Transactions on Big Data, May 2017 [Java].
11. A Pre-Authentication Approach to Proxy Re-encryption in Big Data Context, IEEE Transactions on Big Data, May 2017 [Java].

12. Secure Authentication in Cloud Big Data with Hierarchical Attribute Authorization Structure, IEEE Transactions on Big Data, May 2017 [Java].
13. Privacy-Preserving Data Encryption Strategy for Big Data in Mobile Cloud Computing, IEEE Transactions on Big Data, May 2017 [Java].
14. A Data Mining Approach Combining K-Means Clustering with Bagging Neural Network for Short-term Wind Power Forecasting, IEEE Internet of Things Journal, March 2017 [Java]
15. A Privacy Preserving Communication Protocol for IoT Applications in Smart Homes, IEEE Internet of Things Journal, May 2017 [Contiki-Cooja Simulator]
16. Security Bootstrapping for Secure Join and Binding on the IEEE 802.15.4-based LoWPAN, IEEE Internet of Things Journal, May 2017, [Contiki-Cooja Simulator]
17. TAFC: Time and Attribute Factors Combined Access Control for Time-Sensitive Data in Public Cloud, IEEE Transactions on Services Computing, April 2017 [Java]
18. Optimal Load Distribution for the Detection of VM-based DDoS Attacks in the Cloud, IEEE Transactions on Services Computing, April 2017 [Java/CloudSim]
19. Dynamic Outsourced Auditing Services for Cloud Storage Based on Batch-Leaves-Authenticated Merkle Hash Tree, IEEE Transactions on Services Computing, May 2017 [Java]
20. Full Verifiability for Outsourced Decryption in Attribute Based Encryption, IEEE Transactions on Services Computing, May 2017 [Java]
21. An Efficient Public Auditing Protocol with Novel Dynamic Structure for Cloud Data, IEEE Transactions on Information Forensics and Security, May 2017 [Java]
22. A Game-Theoretic Analysis of Adversarial Classification, IEEE Transactions on Information Forensics and Security, June 2017 [Java]
23. Defending Against Web Application Attacks: Approaches, Challenges and Implications, IEEE Transactions on Dependable and Secure Computing, March 2017
24. FastGeo: Efficient Geometric Range Queries on Encrypted Spatial Data, IEEE Transactions on Dependable and Secure Computing, March 2017 [Java]
25. Cryptographic Solutions for Credibility and Liability Issues of Genomic Data, IEEE Transactions on Dependable and Secure Computing, April 2017 [Java]

26. Publicly Verifiable Boolean Query Over Outsourced Encrypted Data, IEEE Transactions on Cloud Computing, March 2017 [Java]
27. A Secure and Practical Authentication Scheme Using Personal Devices, IEEE Access, June 2017 [Java/J2EE]
28. Achieving Secure, Universal, and Fine-Grained Query Results Verification for Secure Search Scheme over Encrypted Cloud Data, IEEE Transactions on Cloud Computing, May 2017 [Java].
29. Fast Phrase Search for Encrypted Cloud Storage, IEEE Transactions on Cloud Computing, May 2017 [Java]
30. Privacy-Preserving Fine-Grained Data Retrieval Schemes For Mobile Social Networks, IEEE Transactions on Dependable and Secure Computing, June 2017 [Java]
31. Flexible Data Access Control based on Trust and Reputation in Cloud Computing, IEEE Transactions on Cloud Computing, 2016 [Java].
32. A Modified Hierarchical Attribute-based Encryption Access Control Method for Mobile Cloud Computing, IEEE Transactions on Cloud Computing, 2016 [Java].
33. Flexible and Fine-Grained Attribute-Based Data Storage in Cloud Computing, IEEE Transactions on Services Computing, 2016 [Java].
34. Secure and Efficient Authentication Scheme for Cloud Computing, International Journal of Computer Applications, May 2016 [Java].
35. CypherDB- A Novel Architecture for Outsourcing Secure Database Processing, IEEE Transactions on Cloud Computing, 2016 [Java].
36. Access Control for Cloud Computing Through Secure OTP Logging as Services, International Journal of Computer Applications, May 2016. [Java].
37. Implementation of DDoS Attack Preemption and Improved Data Integrity in Cloud, International Journal of Computer Applications, May 2016 [Java/Cloudsim].
38. Towards Building Forensics Enabled Cloud Through Secure Logging-as-a-Service, IEEE Transactions on Dependable and Secure Computing, April 2016 [Java].
39. Dynamic-Hash-Table Based Public Auditing for Secure Cloud Storage, IEEE Transactions on Services Computing, 2016 [Java].

40. Secure Data Sharing in Cloud Computing Using Revocable-Storage Identity-Based Encryption, IEEE Transactions on Cloud Computing, 2016 [Java].
41. Probabilistic Optimization of Resource Distribution and Encryption for Data Storage, IEEE Transactions on Cloud Computing, 2016 [Java/Cloudsim].
42. Identity-Based Encryption with Cloud Revocation Authority and Its Applications, IEEE Transactions on Cloud Computing, 2016 [Java].
43. Implementation and Comparative Analysis of RSA and MD5 Algorithm, International Journal of Computer Applications, May 2016. [Java].
44. A Privacy-aware Authentication Scheme for Distributed Mobile Cloud Computing Services, IEEE systems journal, September 2015 [Java/CloudSim].
45. Generic and Efficient Constructions of Attribute-Based Encryption with Verifiable Outsourced Decryption, IEEE Transaction on Dependable and Secure Computing, April 2015 [Java]
46. A Hybrid Cloud Approach for Secure Authorized Deduplication, IEEE Transactions on Parallel and Distributed Systems, May 2015 [Java/CloudSim]
47. Developing Secure Cloud Storage System by Applying AES and RSA Cryptography Algorithms with Role based Access Control Model. International Journal of Computer Applications, May 2015 [Java/CloudSim]
48. Stealthy Denial of Service Strategy in Cloud Computing, IEEE Transactions on Cloud Computing, January-March 2015 [Java/CloudSim]
49. Secure Auditing and Deduplicating Data in Cloud, IEEE Transactions on Computers, January 2015 [Java/CloudSim]
50. User-Habit-Oriented Authentication Model: Toward Secure, User-Friendly Authentication for Mobile Devices, IEEE Transactions On Emerging Topics In Computing, March 2015 [Java/Android]
51. PiCAPTion: Picture CAPTCHAs for Internet Authentication, International Journal of Computer Applications, March 2015.
52. Accuracy-Constrained Privacy-Preserving Access Control Mechanism for Relational Data, IEEE Transactions on Knowledge and Data Engineering, April 2014 [Java]
53. An Efficient Certificateless Encryption for Secure Data Sharing in Public Clouds, IEEE Transactions on Knowledge and Data Engineering, 2014 [Java/ CloudSim]

54. Authorized Public Auditing of Dynamic Big Data Storage on Cloud with, IEEE Transactions on Parallel and Distributed Systems, 2014 [Java/ CloudSim]
55. Captcha as Graphical Passwords-A New Security Primitive Based on Hard AI Problems, IEEE Transaction on Information Forensics and Security, June 2014 [Java]
56. Cost-Effective Authentic and Anonymous Data Sharing with Forward Security, IEEE Transactions on Computers, April 2014 [Java]
57. Expressive, Efficient, and Revocable Data Access Control for Multi-Authority Cloud Storage, IEEE Transactions on Parallel and Distributed Systems, 2014 [Java/ CloudSim]
58. Identity-Based Distributed Provable Data Possession in Multi-Cloud Storage, IEEE Transactions on Services Computing, 2014 [Java/ CloudSim]
59. Secure and Reliable Routing Protocols for Heterogeneous Multi-hop Wireless Networks, IEEE Transactions on Parallel and Distributed Systems, 2014 [NS2]
60. A Novel electronic English Auction system with a secure on- shelf mechanism, 2013[Java/J2EE]
61. Enforcing Secure and Privacy-Preserving Information Brokering in Distributed Information Sharing, IEEE Transactions on Information Forensics and Security, June 2013 [JAVA]
62. A Formal Usability Constraints Model for Watermarking of Outsourced Datasets, IEEE Transactions on Information Forensics and Security, June 2013 [JAVA]
63. Preventing Private Information Inference Attacks on Social Networks, IEEE Transactions on Knowledge and Data Engineering, Aug 2013 [JAVA/J2EE]
64. Secure Provenance Transmission for Streaming Data, IEEE Transactions on Knowledge and Data Engineering, Aug 2013 [JAVA]
65. Harnessing the Cloud for Securely Outsourcing Large-Scale Systems of Linear Equations, IEEE Transactions on Parallel and Distributed Systems, June 2013 [JAVA]
66. Mona: Secure Multi-Owner Data Sharing for Dynamic Groups in the Cloud, IEEE Transactions on Parallel and Distributed Systems, June 2013 [JAVA]
67. Privacy-Preserving Public Auditing for Secure Cloud Storage, IEEE Transactions on Computers, Jan 2013 [JAVA]

68. Enhanced Public Auditability & Secure Data Storage in Cloud Computing, IEEE International Advance Computing Conference (IACC), 2013 [JAVA]
69. A Scalable Two-Phase Top-Down Specialization Approach for Data Anonymization Using MapReduce on Cloud, IEEE Transactions on Parallel and Distributed Systems, 2013 [JAVA]
70. Privacy Preserving Delegated Access Control in Public Clouds, IEEE Transactions on Knowledge and Data Engineering, 2013 [JAVA/J2EE]
71. Ensuring Distributed Accountability for Data Sharing in the Cloud, Transactions on Dependable and Secure Computing, July 2012 [Java]
72. DES, AES and Blowfish-Symmetric Key Cryptography Algorithms Simulation based Performance Analysis, International Journal of Emerging Technology and Advanced Engineering, Dec 2011 [JAVA]
73. p-Cloud: A Distributed System for Practical PIR, Transactions on Dependable and Secure Computing, July 2012 [Java]
74. Enabling Public Auditability and Data Dynamics for Storage Security in Cloud Computing, IEEE Transactions on Parallel and Distributed Systems, May 2011[Java]
75. Self-Protection in a Clustered Distributed System, IEEE Transactions on Parallel and Distributed Systems, Feb 2012 [Java/J2EE]
76. Resilient Identity Crime Detection, IEEE Transactions on Knowledge and Data Engineering, March 2012 [Java/J2EE]
77. Slicing: a New Approach for Privacy Preserving Data Publishing, IEEE Transactions on Knowledge and Data Engineering, March 2012 [Java/J2EE]
78. DoubleGuard: Detecting Intrusions in Multitier Web Applications, Transactions on Dependable and Secure Computing, July 2012[J2EE]
79. A Flexible Approach to Multi-session Trust Negotiations, Transactions on Dependable and Secure Computing, Jan 2012 [Java]
80. oPass: A User Authentication Protocol Resistant to Password Stealing and Password Reuse Attacks, IEEE Transactions on Information Forensics and Security, April 2012 [Java]

81. A Robust and Fast Video Copy Detection System Using Content-Based Fingerprinting, IEEE Transactions on Information Forensics and Security, March 2011[Java]
82. Attribute-Based Access Control with Efficient Revocation in Data Outsourcing Systems, IEEE Transactions on Parallel and Distributed Systems, July 2011[Java]
83. Nymble: Blocking Misbehaving Users in Anonymizing Networks, IEEE Transactions on Dependable and Secure Computing, April 2011[Java/NS2]
84. Traceback of DDoS Attacks Using Entropy Variations, IEEE Transactions on Dependable and Secure Computing, Mar 2011[NS2]
85. Implementing Signcryption algorithm, 2011 [JAVA]
86. Privacy-aware Role Based Access Control, Fuzzy Role-Based Access Control, IEEE Transactions on Information Processing Letters, 21 June 2010. [J2EE]
87. An Advanced Hybrid Peer-to-Peer Botnet, IEEE Transactions on Dependable and Secure Computing, June 2010 [JAVA]
88. MABS: Multicast Authentication Based on Batch Signature, IEEE Transactions on Mobile Computing, July 2010 [Java]
89. Detection and Localization of Multiple Spoofing Attackers in Wireless Networks, Jan 2013 [NS2]
90. A Secure Erasure Code-Based Cloud Storage System with Secure Data Forwarding, IEEE Transactions on Parallel and Distributed Systems, June 2012 [Java]
91. Enhanced Privacy ID: A Direct Anonymous Attestation Scheme with Enhanced Revocation Capabilities, IEEE Transactions on Dependable and Secure Computing, May/June 2012 [Java]
92. Cooperative Provable Data Possession for Integrity Verification in Multi-Cloud Storage, IEEE Transactions on Parallel and Distributed Systems, July 2012 [Java]
93. A Decentralized Key Management Scheme via Neighborhood Prediction in Mobile Wireless Networks, July 2010 [NS2]
94. Encryption for Peer-to-Peer Social Networks, 2011 [JAVA].