

# List of Projects in Wireless Security

## S-Logix

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1. A Hybrid Approach for Efficient Privacy Preserving Authentication in VANET, IEEE Access, June 2017 [NS2].
2. A Secure Privacy-Preserving Data Aggregation Scheme based on Bilinear ElGamal Cryptosystem for Remote Health Monitoring Systems, IEEE Access, June 2017 [NS2].
3. SGuard: A lightweight SDN safe-guard architecture for DoS attacks, China Communications, June 2017 [NS2].
4. Are We Really Close? Verifying Proximity in Wireless Systems, IEEE Security & Privacy, June 2017 [NS2].
5. ROSE: Robustness Strategy for Scale-Free Wireless Sensor Networks, IEEE/ACM Transactions on Networking, June 2017 [NS2]. T-Chain: A General Incentive Scheme for Cooperative Computing, IEEE/ACM Transactions on Networking, April 2017 [NS2].
6. Privacy and Integrity Preserving Top-k Query Processing for Two-Tiered Sensor Networks, IEEE/ACM Transactions on Networking, May 2017 [NS2].
7. Location Privacy Preservation in Database-Driven Wireless Cognitive Networks Through Encrypted Probabilistic Data Structures, IEEE Transactions on Cognitive Communications and Networking, May 2017 [NS2].
8. Capability-Based Security Enforcement in Named Data Networking, IEEE/ACM Transactions on Networking, June 2017 [NS2].
9. Two phase wormhole detection approach for dynamic wireless sensor networks.” Wireless Communications, Signal Processing and Networking (WiSPNET), International Conference on. IEEE, 2016 [NS2].
10. Top-k Query Processing and Malicious Node Identification Based on Node Grouping in MANETs, IEEE Access, 2016 [NS2].

11. Traffic Decorrelation Techniques for Countering a Global Eavesdropper in WSNs, IEEE Transactions on Mobile Computing, 2016 [NS2].
12. Secured File Sharing using Trust Mechanism in Wireless Sensor Network, International Journal of Computer Applications, May 2016 [NS2].
13. Sinkhole Attack Detection Scheme using Neighbors' Information for LEAP based Wireless Sensor Networks, International Journal of Computer Applications, May 2016 [NS2].
14. Host Based Intrusion Detection for VANETs- A Statistical Approach to Rogue Node Detection, IEEE Transaction on Vehicular Technology, 2016 [NS2].
15. An Enhanced Approach of Detection and Prevention of Black Hole Attack on AODV over MANET, International Journal of Computer Applications, May 2016 [NS2].
16. ActiveTrust: Secure and Trustable Routing in Wireless Sensor Networks, IEEE Transactions on Information Forensics and Security, 2016 [NS2].
17. MixGroup: Accumulative Pseudonym Exchanging for Location Privacy Enhancement in Vehicular Social Networks, IEEE Transactions on Dependable and Secure Computing, February 2016 [NS2].
18. Detecting Node Failures in Mobile Wireless Networks: A Probabilistic Approach, IEEE Transactions on Mobile Computing, July 2016 [NS2].
19. PROVEST- Provenance-based Trust Model for Delay Tolerant Networks, IEEE Transactions on Dependable and Secure Computing, 2016 [NS2].
20. Dynamic Network Control for Confidential Multi-Hop Communications, IEEE/ACM Transactions on Networking, April 2016 [NS2].
21. SimpleMAC: A Simple Wireless MAC-Layer Countermeasure to Intelligent and Insider Jammers, IEEE/ACM Transactions on Networking, April 2016 [NS2]
22. Forensic analysis of packet losses in wireless networks, IEEE International Conference on Network Protocols (ICNP), 2016 [NS2].
23. Virtual Multipath Attack and Defense for Location Distinction in Wireless Networks, IEEE Transactions on Mobile Computing, 2016 [NS2].
24. Secure and Efficient data communication protocol for Wireless Body Area Networks, IEEE Transactions on Multi-Scale Computing Systems, 2016 [NS2].

25. Detection of Black Hole Attack using Control Packets in AODV Protocol for MANET, International Journal of Computer Applications, 2015 [NS2].
26. Mitigation Model for DDoS Attack in Wireless Sensor Networks, 2015 [NS2].
27. MAC-Layer Selfish Misbehavior in IEEE 802.11 Ad Hoc Networks: Detection and Defense, IEEE Transactions on Mobile Computing, 2015 [NS2]
28. CoCoWa: A Collaborative Contact-Based Watchdog for Detecting Selfish Nodes, IEEE Transaction on Mobile Computing, 2015 [NS2]
29. A Reputation-based Incentive Framework for Mobile Ad Hoc Networks, International Journal of Computer Applications, June 2015 [NS2]
30. Prevention of Multiple Coordinated Jellyfish Attacks in Mobile Ad Hoc Networks, International Journal of Computer Applications, June 2015 [NS2]
31. Investigating the Impact of Black Hole Attack on AODV Routing Protocol in MANETS under Responsive and Non-Responsive Traffic, International Journal of Computer Applications, June 2015 [NS2]
32. Cooperative Black Hole Detection Mechanism in Mobile Ad Hoc Network, International Journal of Computer Applications, June 2015 [NS2]
33. Effect Analysis of Black Hole Attack of AODV Protocol in MANET using Table Driven Approach, International Journal of Computer Applications, June 2015 [NS2]
34. Detection of Black Hole Attack using Control Packets in AODV Protocol for MANET, International Journal of Computer Applications, May 2015 [NS2]
35. Detection and Prevention Mechanism for TTL Field Tampering Form of DDoS Attack in MANET's, International Journal of Computer Applications, May 2015 [NS2]
36. Enhancing Privacy Preservation using S-ALERT Protocol to Diminish Routing Attacks in MANETs, International Journal of Computer Applications, May 2015 [NS2]
37. An Approach to Detect Wormhole Attack in AODV based MANET, International Journal of Computer Applications, March 2015 [NS2]
38. A Secure Data Aggregation Scheme Based on Appropriate Cryptographic Primitives in Heterogeneous Wireless Sensor Networks, IEEE Transactions on Parallel and Distributed Systems, August 2015 [NS2]

39. REAL: A Reciprocal Protocol for Location Privacy in Wireless Sensor Networks, IEEE Transactions on Dependable and Secure Computing, July- August 2015 [NS2]
40. An Efficient Distributed Trust Model for Wireless Sensor Networks, IEEE Transactions on Parallel and Distributed Systems, May 2015 [NS2]
41. A Lightweight Secure Scheme for Detecting Provenance Forgery and Packet Drop Attacks in Wireless Sensor Networks, IEEE Transactions on Dependable and Secure Computing, May-June 2015 [NS2]
42. Cost-Aware SEcure Routing (CASER) Protocol Design for Wireless Sensor Networks, IEEE Transactions on Parallel and Distributed Systems, April 2015 [NS2]
43. Secure and Distributed Data Discovery and Dissemination in Wireless Sensor Networks, IEEE Transactions on Parallel and Distributed Systems, April 2015 [NS2]
44. Segment-Based Anomaly Detection with Approximated Sample Covariance Matrix in Wireless Sensor Networks, IEEE Transactions on Parallel and Distributed Systems, February 2015 [NS2]
45. Secure Data Aggregation Technique for Wireless Sensor Networks in the Presence of Collusion Attacks, January-February 2015 [NS2]
46. A Static Code and Dynamic Data Attestation based Intrusion Detection System for Wireless Sensor Networks. International Journal of Computer Applications, June 2015 [NS2]
47. Secure based Clustering Algorithm for Wireless Sensor Networks. International Journal of Computer Applications, May 2015 [NS2]
48. Group Key Management Technique based on Logic- Key Tree in the Field of Wireless Sensor Network. International Journal of Computer Applications, May 2015 [NS2]
49. A Novel Approach to Detect and Prevent Wormhole Attack in Wireless Sensor Network. International Journal of Computer Applications, April 2015 [NS2]
50. An Energy Preserving Detection Mechanism for Blackhole Attack in Wireless Sensor Networks. International Journal of Computer Applications, April 2015 [NS2]
51. Impact of Black Hole and Sink Hole Attacks on Routing Protocols for WSN. International Journal of Computer Applications, April 2015 [NS2]

52. Secure and Robust Multi-Constrained QoS aware Routing Algorithm for VANETs , IEEE Transaction on Dependable and Secure Computing, 2015 [NS2]
53. PBA: Prediction-based Authentication for Vehicle-to-Vehicle Communications, IEEE Transaction on Dependable and Secure Computing, 2015 [NS2]
54. A Novel approach for Detection of Distributed Denial of Service attack in VANET, International Journal of Computer Applications, June 2015. [NS2]
55. Isolating Packet Dropping Misbehavior in VANET Using Ant Colony Optimization, International Journal of Computer Applications, June 2015. [NS2]
56. An Efficient Wormhole Attack Detection Method in Wireless Sensor Networks, Computer Science and Information Systems, 2014 [NS2].
57. JellyFish attack: Analysis, detection and countermeasure in TCP-based MANET, Journal of Information Security and Applications, 2014 [NS2]
58. Trust Based Certificate Revocation of Malicious Nodes in MANET, IEEE International Conference on Advanced Communication Control and Computing Technologies (ICACCCT), 2014 [NS2]
59. ACPN: A Novel Authentication Framework with Conditional Privacy-Preservation and Non-Repudiation for VANETs, IEEE Transactions on Parallel and Distributed Systems, 2014 [NS2]
60. Dynamic Trust Management for Delay Tolerant Networks and Its Application to Secure Routing, IEEE Transactions on Parallel and Distributed Systems, 2014 [NS2]
61. SAKGP: Secure Authentication Key Generation Protocol in WLAN, International Journal of Computer Applications, June 2014 [NS2]
62. Performance Evaluation of Secure and Efficient AODV Routing Protocol using NS2. International Journal of Computer Applications, July 2014 [NS2]
63. An effective implementation of security based algorithmic approach in mobile adhoc networks, Human-centric Computing and Information Sciences, 2014 [NS2]
64. Security Enhancements for Mobile Ad Hoc Networks With Trust Management Using Uncertain Reasoning, IEEE Transactions on Vehicular Technology, 2014 [NS2]
65. Performance Evaluation of AODV routing Protocol under Black Hole attack with varying Black hole nodes, IEEE, 2014 [NS2]

66. Defending against Energy Draining attack in Wireless Ad-Hoc Sensor Networks, IJARCSST, 2014 [NS2]
67. A light weight PLGP based method for mitigating vampire attacks in Wireless Sensor Networks, IJECS, 2014 [NS2]
68. Vehicular Security Through Reputation and Plausibility Checks, IEEE Systems Journal, June 2014 [NS2]
69. A New Handover Scheme for Providing Security in VANET, International Journal of Computer Applications, May 2014 [NS2]
70. Self-Adaptive Security for Mobiles Agents, International Journal of Computer Applications, May 2014. [NS2]
71. A Trust based Approach for Detecting and Preventing Wormhole Attack in MANET, International Journal of Computer Applications, May 2014 [NS2]
72. On Joint Privacy and Reputation Assurance for Vehicular Ad Hoc Networks, IEEE Transactions on Mobile Computing, 2014 [NS2]
73. Privacy-Preserving and Truthful Detection of Packet Dropping Attacks in Wireless Ad Hoc Networks, IEEE Transactions on Mobile Computing, 2014 [NS2]
74. STARS: A Statistical Traffic Pattern Discovery System for MANETs, IEEE Transactions on Dependable and Secure Computing, 2014 [NS2]
75. Lightweight Privacy-Preserving and Secure Communication Protocol for Hybrid Ad Hoc Wireless Networks, IEEE Transactions on Parallel and Distributed Systems, 2014 [NS2]
76. Secure and Reliable Routing Protocols for Heterogeneous Multi-hop Wireless Networks, IEEE Transactions on Parallel and Distributed Systems, 2014 [NS2]
77. Secure Data Aggregation in Wireless Sensor Networks: Filtering out the Attacker's Impact, IEEE Transactions on Information Forensics and Security, April 2014 [NS2]
78. Dynamic Detection of Node Replication Attack in Wireless Sensor Network using MANET, International Journal of Computer Applications, May 2014 [NS2]
79. An Insight in to Network Traffic Analysis using Packet Sniffer, International Journal of Computer Applications, May 2014 [NS2]

80. Using a Random Perturbation-based Scheme for establishing Authentic Associations in Wireless Mesh Network, International Journal of Computer Applications, May 2014 [NS2]
81. Lightweight authentication protocol used in wireless sensor network, IEEE, 2014
82. LDTS: A Lightweight and Dependable Trust System for Clustered Wireless Sensor Networks, IEEE Transactions on Information Forensics and Security, June 2013 [NS2]
83. Localized Algorithms for Detection of Node Replication Attacks in Mobile Sensor Networks, IEEE Transactions on Information Forensics and Security, May 2013 [NS2]
84. Trust based Ad-hoc on Demand Routing protocol for MANET, International Conference on IEEE, 2013
85. BlackHole Attack and Detection Method for AODV Routing Protocol in MANETs, International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), April 2013
86. Lifetime elongation of ad hoc networks under flooding attack using power-saving technique, 2013
87. MAODV:Modified Wormhole Detection AODV Protocol, IEEE Transactions on Network Security, 2013
88. Evaluation of the Use of Guard Nodes for Securing the Routing in VANETs, IEEE Journal of Communications and Networks, April 2013 [NS2]
89. A Beacon-based Trust Management System for Enhancing User Centric Location Privacy in VANETs, IEEE Journal of Communications and Networks, April 2013 [NS2]
90. To Lie or to Comply: Defending against Flood Attacks in Disruption Tolerant Networks, IEEE Transactions on Dependable and Secure Computing, May/June 2013 [NS2]
91. Vampire Attacks: Draining Life from Wireless Ad Hoc Sensor Networks, IEEE Transactions on Mobile Computing, Feb 2013 [NS2]
92. On the Discovery of Critical Links and Nodes for Assessing Network Vulnerability, IEEE Transactions on Networking, June 2013 [NS2]



93. Detection and Localization of Multiple Spoofing Attackers in Wireless Networks, Jan 2013 [NS2]
94. A Secure Protocol for Spontaneous Wireless Ad Hoc Networks Creation, IEEE Transactions on Parallel and Distributed Systems, April 2013 [NS2]
95. Incentive-Driven and Privacy-Preserving Message Dissemination in Large Scale Mobile Networks, IEEE Transactions on Parallel and Distributed Systems, 2013 [NS2]
96. Secure and Efficient Data Transmission for Cluster-Based Wireless Sensor Networks, IEEE Transactions on Parallel and Distributed Systems, 2013 [NS2]
97. Privacy-Preserving Profile Matching for Proximity-Based Mobile Social Networking, IEEE Transactions on Selected Areas in Communication, 2013 [NS2]
98. Secure Cooperative Data Downloading in Vehicular Ad Hoc Networks, IEEE Transactions on Selected Areas in Communication, 2013 [NS2/JAVA]
99. cTrust: Trust Management in Cyclic Mobile Ad Hoc Networks, IEEE Transactions on Vehicular Technology, 2013 [NS2]
100. Formal Analysis of Secure Neighbor Discovery in Wireless Networks, IEEE Transactions on Dependable and Secure Computing, 2013 [NS2]
101. A Novel Approach to Trust Management in Unattended Wireless Sensor Networks, IEEE Transactions on Mobile Computing, 2013 [NS2]
102. A Scalable Transitive Human-Verifiable Authentication Protocol for Mobile Devices, IEEE Transactions on Information Forensics and Security, 2013 [NS2]
103. Cluster-Based Certificate Revocation with Vindication Capability for Mobile Ad Hoc Networks, IEEE Transactions on Parallel and Distributed systems, 2013
104. Secure Routing in Wireless Sensor Network, IJARCSSE, 2013
105. A Framework for Secure and Efficient Data Acquisition in Vehicular Ad Hoc Networks, IEEE Transactions on Vehicular Technology, 2013
106. Prevention of Black Hole Attack in MANET, IRACST – International Journal of Computer Networks and Wireless Communications (IJCNWC), 2012 [NS2].
107. A Reliable Transmission Protocol for ZigBee-Based Wireless Patient Monitoring, IEEE Transactions on Information Technology in Biomedicine, Jan 2012 [Java/NS-2]



108. Optimal Jamming Attack Strategies and Network Defense Policies in Wireless Sensor Networks, IEEE Transactions on Mobile Computing, August 2010 [NS2]
109. USOR: An Unobservable Secure On-Demand Routing Protocol for Mobile Ad Hoc Networks, IEEE Transactions on parallel and distributed systems, May 2012 [Java/NS2]
110. Footprint: Detecting Sybil Attacks in Urban Vehicular Networks, IEEE Transactions on Parallel and Distributed Systems, June 2012 [NS2]
111. Secure Dynamic Routing Protocols based on Cross-Layer Network Security Evaluation IEEE, 2012 [NS2]
112. Hierarchical Trust Management for Wireless Sensor Networks and its Applications to Trust-Based Routing and Intrusion Detection, IEEE Transactions on Networking, June 2012 [NS2]
113. Degree-Based Clustering Algorithms for Wireless Ad Hoc Networks Under Attack, IEEE Communications Letters, May 2012 [NS2]
114. AMD: Audit-based Misbehavior Detection in Wireless Ad Hoc Networks, 2012 IEEE [NS2]
115. Improving Selfish Node Detection in MANETs Using a Collaborative Watchdog, IEEE Communications Letters, May 2012 [NS2]
116. Risk-Aware Mitigation for MANET Routing Attacks, Transactions on Dependable and Secure Computing, March 2012 [NS2]
117. Detection of Wormhole Attacks in Wireless Sensor Networks, 2012 [NS2]
118. Packet-Hiding Methods for Preventing Selective Jamming Attacks, Transactions on Dependable and Secure Computing, Jan 2012 [NS2]
119. Administrator and trust based Secure routing MANET, International Conference on Advances in Mobile Network, Communication and its Applications (MNCAPPS), IEEE, 2012 [NS2]
120. A key management and secure routing integrated framework for Mobile Ad-hoc Networks, Elsevier, 2012
121. Developing a BDSR scheme to avoid black hole attack based on proactive and reactive architecture in MANETs, Advanced Communication Technology (ICACT), IEEE, 2011 [NS2]

122. Stealthy Attacks in Wireless Ad Hoc Networks: Detection and Countermeasure, IEEE Transactions on Mobile Computing, August 2011 [Java/NS2]
123. On the Effectiveness of Monitoring for Intrusion Detection in Mobile Ad Hoc Networks, IEEE Transactions on Mobile Computing, August 2011 [NS2]
124. SAT: A Security Architecture Achieving Anonymity and Traceability in Wireless Mesh Networks, IEEE Transactions on Dependable and Secure Computing, April 2011 [Java/NS2]
125. Secure High-Throughput Multicast Routing in Wireless Mesh Networks, IEEE Transactions on Mobile Computing, May 2011 [NS2]
126. P2DAP — Sybil Attacks Detection in Vehicular Ad Hoc Networks, IEEE Journal on Selected Areas in Communications, March 2011 [Java/NS2]
127. A Policy Enforcing Mechanism for Trusted Ad Hoc Networks, IEEE Transactions on Dependable and Secure Computing, June 2011 [Java/NS2]
128. Impact of Feature Reduction on the Efficiency of Wireless Intrusion Detection Systems, IEEE Transactions on Parallel and Distributed Systems, August 2010 [NS2]
129. Dynamic rekeying in 3GPP multimedia broadcast/multicast service (MBMS) IEEE Communications Letters, April 2010 [JAVA]
130. Detecting Denial of Service Attacks in Sensor Networks, 2010 [NS2]
131. A Decentralized Key Management Scheme via Neighborhood Prediction in Mobile Wireless Networks, July 2010 [NS2]ous