



SRINIVAS UNIVERSITY

Mangalore-575001, Karnataka (India)

Srinivas Research Centre for Information and Network Security



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Introduction

The rapid development of computer network, especially the emergence of the Internet, makes all kinds of information applications increasingly popular and widely spread. However, all kinds of information are transmitted and stored in the public communication network, which may be illegally wiretapped, intercepted, tampered or damaged by attackers with a variety of the purposes, thus resulting in an immeasurable loss. The treats on network security mainly display in: illegal access, pretending to be legal users, destroying data, listening in line and using network to transport virus, etc. With the network security problem increasingly prominent, whether the network security problem can be solved has become one of the key factors restricting the development of network. Network security problem generally includes network system security and data security. Network system security is to prevent the system from illegal attack, access and destruction; while data security is mainly to prevent confidential and sensitive data from being steal or illegal copied.

The computer network security problem is related to many fields, such as computer technology, communication technology, mathematics, cryptography, information theory, management and low. From the perspective of different fields, there are different solutions for network security problem, and these solutions should be integrated to solve the problem.

About the Research Centre

This research centre is an initiative in the field of computer science and engineering at Srinivas University College of Engineering and Technology (S.U.C.E.T), focusing various activities in the area of Information and Network Security. With the active participations from faculties and students of SUCET, this centre wish to contribute by means of research and teaching activities in this sphere and also intending to present papers in the field of Information and Network Security at national and international seminars and conferences apart from conducting a large number of training programs in this domain. This also proposes an industry-academic partnership to form many of its activities.

Objectives of Srinivas research centre for Information and Network Security

- Developing teaching materials and preparing working papers.
- Organize workshops / seminars / conferences
- Conducting certificate programmes for aspirants
- Undertaking research and consultancy studies.
- Preparing engineering graduates for the Information and Network Security domain.

List of Publications

1. Presented paper at National Conference on NCMTCS held at Malnad College of Engineering, Hassan, India and **secured Best Paper Award**. Paper titled “Enhanced Security of Data Discovery and Dissemination for Distributed Systems using DiDrip Protocol in WSNs”
2. Project titled “Reliable and Efficient Data Discovery and Dissemination using Decentralized approach in Mobile WSNs” got the **Best Innovative Project Award** in the State level project exhibition INNOVATA 2K17 held at SDMIT, Ujire on May 2017.
3. Presented paper titled —A study based on different protocols to enhance security for data dissemination in WSN’s in the National Conference on —Security, Privacy and Analytics [SPA]-2018 at R.V. College of Engineering, Bengaluru. Also the paper published in Coimbatore Institute of Information Technology (CiIT) International Journal, Volume 10, Issue 5 May 2018 ISSN 0974-9616. □
4. Presented paper titled —Enhanced Efficient Congestion Control Mechanism for Real Time Traffic to Attain QoS in MANET’s in the National Conference on —Security,

Privacy and Analytics [SPA]-2018 at R.V. College of Engineering, Bengaluru, on 4th and 5th May 2018

5. Presented paper titled “ Efficient Congestion Control mechanism for real time traffics to attain QOS in MANETs” in the International Conference on Computer Networks, Security and Computing (ICCSC-2018), Bangalore.
6. Presented paper titled “Study On routing protocols for video streaming security in MANETs” in the National Conference on Emerging Trends in Science and Engineering, (NCETSE 2018), held at SMVITM, Bantakal Udupi, Karnataka India, on 27 and 28 April 2018 and paper got published in International Journal of Scientific and Engineering Research, Volume 9, Issue 5, 2018.
7. Presented paper in International Conference on recent trends in technologies ICRITT, held at SDMIT, Ujire on 17th and 18th May 2018 and paper published in International Journal of Computer Applications.
8. Presented Paper at International Conference on Advances in Computer and Communication Engineering (ACCE-2017) at Vemana Institute of Technology, Bengaluru. Paper titled “Reliable and Efficient Data Discovery and Dissemination using De-centralized approach in Mobile WSNs”.
9. Presented paper in National Conference on emerging trends and advances in information technology, Chikkamagalur.
10. Published Paper in International Journal of Innovative Research and Information Technology (IJIRIS) titled “Reliable and Efficient Data Discovery and Dissemination using De-centralized approach in Mobile WSNs”. Volume 4, Issue 05, May 2017.
11. Presented and **Secured Third Place** at State level Project Exhibition and Competition at R.V. College of Engineering, Bengaluru for Project titled “Enhanced Security using DiDrip Protocol in Mobile Wireless Sensor Networks”.
12. Paper titled “A Review on Data Traffics in Real time Traffics for MANETS” published in International Research Journal of Engineering and Technology (IRJET) Volume 4 Issue 11, November 2017.
13. Paper titled “A Study on IoT approach for Monitoring Water Quality Using MQTT Algorithm.” Published in International Research Journal of Engineering and Technology (IRJET) Volume 5, Issue 3, March-2018.
14. Paper titled “Study on Different Mechanisms for Congestion Control in Real time Traffics for MANETS” Published in International Research Journal of Engineering and Technology (IRJET) Volume 4, Issue 11, November 2017.

15. Presented paper on “Key Management for Achieving Security using Identity and Trust in Ad-hoc Networks at National conference held at SIMS, Mangalore, India.
16. Presented paper titled “Survey on Security Challenges in MANET” at International conference on ICRASE, held at Bangalore, India
17. Presented Paper on “Enhanced Data Security with Multipath Encrypted Routing for Reliable Data Delivery in MANETs” at NCMTCS National conference held at Malnad College of Engineering, Hassan, India.
18. Presented paper on “Enhanced Data Security using SPREAD protocol for Reliable Data Delivery in MANETs ” at National Conference MANEGMA, held at SIMS, Mangalore, India.