H. K. E. Society's
Sir M Visveswaraya College of Engineering, Raichur
(Formerly SLN College of Engineering)

A Talk on "Detection and Mitigation of blended interest Flooding Attacks in Named Data Networks"

Organized by
Organized by IEEE Student Branch STB99080

Date: 26th Apr 2024 Venue: Seminar Hall

Time: 10:00 am to 12:00 noon No. of Participants: 103
(Guest: 85 IEEE Member:18)

IEEE Student Branch (STB99080) organized a talk on "Accurate Detection and Mitigation of blended interest Flooding Attacks in Named Data Networks" on 26-04-2024 starting at 10: 00 am.

The event started with invocation song by Prof. Shwetha. Prof. Sangamesh H branch counselor welcomed the speaker and the participants to the talk. Prof. Jyoti B. K. introduced the speaker Dr, Maode M A, who is currently working as a Research Professor in college of Engineering Qatar University, Qatar, and has rich experience of teaching, training and research.

The speaker introduced the audience to the Accurate Detection and Mitigation of blended interest Flooding Attacks in Named Data Networks and emphasized importance of Named Data Networks.

The talk was very interactive which was attended by students of Computer Science and Engineering and Electronics and Communication Engineering, and they were enthusiastic in asking questions and answering. Staff members of all the branches benefited the talk. The flow of event was anchored by Prof Smita C Chetti and was guided and planned by Dr. Vishwanath P, Professor & Head of ECE department.

H.K.E. SOCIETY'S

Sir M Visvesvaraya College of Engineering, Raichur

(Formerly H.K.E. Society's S.L.N. College of Engineering)

(Affiliated to VTU, Approved by AICTE, Accredited by NAAC)

IEEE Distinguished Lecture on

"Accurate Detection and Mitigation of Blended Interest Flooding Attacks in Named Data Networks"

26th April 2024

Keynote Speaker

Dr. Maode M A

Research Professor, College of Engineering, Qatar University, Qatar

Abstract: Named Data Networking (NDN) is a prominent implementation of the vision of Information-Centric Networking. The NDN architecture adopts name-based routing and location-independent data retrieval. It holds many important outstanding features including in-network caching, built-in multicast, mobility support, and native security mechanisms. The security functionality of the NDN aims to secure the content rather than the communication channels. NDNs make use of data signatures, which permit users to retrieve any available piece of content no matter where it comes from as long as the signature can be verified. Although NDN has integrated some security functionalities, it is not immune to certain malicious attacks such as Interest Flooding Attacks (IFAs). In this talk, the architecture, and operations of the NDNs with a focus on its security vulnerabilities will be first introduced. Then, a novel mechanism to accurately detect and mitigate IFAs and blended IFAs (bIFAs) will be presented as an example to demonstrate the state-of-the-art solution against IFAs and bIFAs. This talk is expected to promote research collaboration and research activities in the field of network security.