IEEE Southeastern Michigan Section

Presents

"Postquantum Cryptography Algorithm for Connected Vehicle"

This talk focuses on the Multivariate Polynomial Public Key Digital Signature Trefoil Knot (MPPK/DSTK) algorithm, a notable advancement refactored from recent PQC developments, distinguished by its integration of true random numbers generated by quantum computers. We further underscore the MPPK/DSTK algorithm's potential as a formidable contender in the evolution of cryptography, offering a significant leap forward in securing digital communications against the quantum computing threat. Both public and private key size are minimized to cater the connected and autonomous vehicle applications, the computation cost is also minimized for Internet of Things usage as well.

Speaker Bio:

Prof. Jun Steed Huang, got his PhD, in 1993, supervised by Prof. Jeremiah F. Hayes, under Canadian International Development Agency program, from Southeast University and Concordia University. He worked at Lockheed Martin USA, Bell Canada, Alcatel France, Microsemi Medical, Jiangsu University, Southern University of Science and Technology. He was Chief Scientist for Alphaba bus, worked on Trust Connected and Autonomous Vehicles program, now teaches at Carleton University.

IEEE Southeastern Michigan
Electrical and Electronic Engineers Creating Our Future

At A Glance

- When:
  Date: April 9th, 2024
  Time: 6 to 7 PM (EST/EDT)
- Where:
  Online using WEBEX breakout rooms
- Audience: All

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