Webinar on Next Generation IoT
The Second Edition

IEEE Communication Society
Technical Committee Communications Software: Special Interest Group on "NFV and SDN Technologies"

Prof. Laurence T. Yang
FCAE, FEIC, MAE, FIEEE, FIET
Department of Computer Science
St Francis Xavier University, Canada

Title: Cyber-Physical-Social Systems: SystemDesignand Data Analytics

Abstract: This talk will present our latest research on the following two direction of Cyber-Physical-Social Systems (CPSS): 1. the effective and efficient approaches for CPSS modeling and general system design automation methods, as well as methods analyzing and/or improving their power and energy, security, trust and reliability features; 2. the Big Data-as-a-Service framework, which includes data representation, dimensionality reduction, incremental and distributed processing, security and privacy, deep learning, clustering, prediction and proactive services, aiming at representing and processing big data generated from CPSS, providing more valued smart services for human and refining the previously designed CPSS.

Corresponding case studies in some applications such as smart traffics will be shown to demonstrate the feasibility and flexibility of the proposed system design methodology and analytic framework.

Title: TBA

Abstract: TBA

Prof. Raj Jain
Barbara J. and Jerome R. Cox, Jr.,
Professor of Computer Science and Engineering,
Washington University in St. Louis

Prof. Zhu Han
Fellow IEEE, Fellow AAAS
John and Rebecca Moores Professor
University of Houston
Houston, TX

Title: Machine Learning for Multi-Access Edge Computing and Autonomous Driving

Abstract: The last decade has witnessed an unprecedented improvement and prosperity of machine learning techniques and applications. Such rapid development is heavily dependent on the tremendous available data generated by the ever-increasing number of mobile devices, like the Internet of Vehicles. To relieve the computation pressure and reduce the latency, multi-access edge computing has emerged as a promising paradigm for real-time mobile services. One of the typical edge computing-assisted applications is autonomous driving, which is computation-intensive, memory-consuming, and latency-sensitive. In this talk, we will discuss two main topics, i.e., the edge resource resources reservation for autonomous vehicles and low latency edge computing assisted high definition map updating mechanism.

Principal Host: **Prof. Sudip Misra, IIT Kharagpur, India**
Co-Host: **Dr. Arijit Roy, University of Luxembourg, Luxembourg**
Co-Host: **Dr. Ayan Mondal, IIT Indore, India**

More details can be found **here**
Date: **December 10, 2021**
Time: **7:30 PM – 9:30 PM, Indian Time (IST)**

All participants need to pre-register by 5 PM (IST), December 09, 2021 by filling-up the following form: **Registration Link**
Zoom sign-in details will be shared with the registered participants using the email address provided in the registration form.