
Sunday 24 September 2017 Simcoe

W2: (3rd RAFNET) Research Advancements in Future Internet Architectures

Recently, a lot of research efforts have been made from both academia and industry side to promote various new and emerging network paradigms. The reason is that during the past decade, it has been realized that the current internet architecture was originally designed for end-to-end host centric communications, however, the actual focal of communications is the content itself. Hence, we have witnessed new architectures such as an Information Centric Network (ICN) with various extensions like Content-Centric Network (CCN), Named Data Network (NDN), Data-Oriented Network Architecture, and so on. On the other hand, enormous efforts in cellular networks have been made for improving the user experience and as a result, today, we are able to use LTE-A and other networks. In this context, the upcoming 5G networking architectures, whose ongoing research is focused on the networking mechanisms in regards to the massive increase in the number of connected devices, bandwidth requirements, reduced latency, and the deployment of supporting operational mechanisms such as network virtualization, cloud-based deployments, mobile edge computing, and storage and new utilization scenarios. Moreover, these new technologies are being applied in other networking domains as well, including VANETs, Smart Grid, Smart Cities, Internet of Things, Big Data, etc.

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Syed Ali Hassan, NUST

Papers

September 4, 2017, 14:00-17:30 Simcoe

1 User Localization in Next Generation Wireless Networks

Shahrokh Valaee, University of Toronto

2 A New Similarity Computation Method in Collaborative Filtering based Recommendation System

Xiaokun Wu, Yongfeng Huang, Tsinghua University; Shihui Wang, Hubei University

3 A Novel Framework for Software Defined Wireless Sensor Networks

Khandakar Ahmed, Victoria University; Nazmus Nafi, RMIT University; Waleed Ejaz, Ryerson University, Canada; Mark A Gregory, RMIT University; Asad Masood Khattak, Zayed University

4 Delay Constraint Location Privacy Scheme in VANETs

Humera Yasmeen, Omair Ahmad Khan, Abdul Wahid, Munam Ali Shah, COMSATS Institute of Information Technology

5 A novel architecture for Information Sharing & Exchange between IoT systems

Hui Zhang, Jing Dong, China Electronics Standardization Institute

6 E-Lithe: A lightweight secure DTLS for IoT

Asma Haroon, COMSATS Institute of Information Technology; Sana Akram, Bahria University, Islamabad; Munam Ali Shah, Abdul Wahid, COMSATS Institute of Information Technology

7 Native ICN Deployment in LTE Networks

Prakash Suthar, Cisco Systems Inc; Milan Stolic, Anil Jangam, Cisco Systems