International Workshop on Mobile Cloud and Edge Computing(MCEC2017)

The cloud computing facilitates users with several opportunities by providing wide range of services and virtually unlimited available resources. The large pool of resources and services has enabled the emergence of several new applications, such as virtual reality, smart grids, and smart building control. However, the euphoria transforms into a problem for delay-sensitive applications, which need to meet the delay requirements. The problem becomes clearer and more intense as several smart devices and objects are getting involved in human's life as in case of smart cities or Internet of Things. Current Mobile Cloud Computing (MCC) and Mobile Edge Computing (MEC) paradigm is unable to meet the requirements of low latency, location awareness, and mobility support. To address the problem, researchers have coined a term of Mobile Cloud Computing (MCE) and Mobile Edge Computing (MEC) that was introduced to bring the cloud services and resources closer to the user proximity by leveraging the available resources in the edge networks. MCE and MEC aims to enable the billions of connected mobile devices to execute the real-time compute-intensive applications directly at the powerful resource server or nearest network edge. Specially, the distinguishing features of MEC are its closeness to end-users, mobility support, and dense geographical deployment of the MEC servers. Despite the several advantages, realizing the vision of MCE and MEC are challenging task because of the administrative policies and security concerns. There is a need to investigate the key requirements and potential opportunities for enabling the vision of MCCC and MEC.

In this workshop, we are seeking new and unpublished work in the domain of MCC and MEC. More specifically, this workshop will focus on recent developments of experiences in MCCs and MECs.

The list of topics includes, but is not limited to:

-Identification of incentives for MCC/MEC service providers.

-MEC architecture: peculiar features and evolution.

-User transparent application execution frameworks for MCC/MEC .

-Real-time communication interfaces and protocols for enabling the communication between MCC/MEC client and MCC/MEC server, between MCC/MEC servers, between MCC/MEC server and the cloud server

-Smart MCC/MEC scheduler to improve resource scheduling that enhances the reliability and scalability

-Resource monitoring mechanism and utilization measuring mechanism

- MCC/MEC resources allocation and management

-Real-time load prediction model to optimize the user satisfaction

- MCC/MEC functionalities virtualization

- Data storage, processing, and management at MCC/MEC platform

- Simulation models for MCC/MEC

- Performance evaluation of MCC/MEC simulators and platforms

- Deployment strategies of MCC/MEC Servers

- Admission control for MCC/MEC

- Pricing and billing models for MCC/MEC.

- Lightweight authentication mechanisms that are also feasible to run on the resource constrained devices such as smart sensors

Open issues, challenges and future perspective for MCC/MEC

Important Dates

- *Paper Submission Due: March 30, 2017*

- *Author Notification: April 15, 2017*

- *Registration Due: April 25, 2017*

- *Camera Ready Due: April 30, 2017*

- *Conference Date: May 22-24, 2017*