

IEEE ICC Workshop on Advanced Mobile Edge /Fog Computing for 5G Mobile Networks and Beyond

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Paper Submission: TBD
Decision Notification: TBD
Camera Ready: TBD
Workshop: TBD

Call for Papers

The advancement of intelligent Internet of Things has witnessed the unprecedented proliferation of smart applications (e.g., automatic navigation, face recognition, unmanned driving, etc.) and quality-of-experience (QoE)-demanding services (e.g., mobile online gaming, augmented reality, etc.), which require massive size-constrained and low-power mobile devices to perform computation-intensive and latency-sensitive tasks. Mobile edge /fog computing (MEC/FC) have been envisioned to be a promising technology to help realize these applications and services. The conventional edge computing design focuses on maximizing the computation capability and results in an energy crisis and concerns about the increasing greenhouse gas emissions. Newly advanced MEC/FC are expected to not only alleviate the greenhouse effect, but also achieve sustainable operation. In order to enable advanced mobile/fog edge computing, several emerging techniques have been proposed, including energy harvesting, and network slicing techniques, etc.

This workshop aims to bring together academic and industrial researchers in an effort to identify and discuss the major challenges and recent breakthroughs related to MEC/FC. Topics of interest include but are not limited to the following:

- Energy-efficient network architectures for MEC/FC
- Energy-efficient resource allocation strategies for MEC/FC
- Energy-efficient resource sharing techniques for MEC/FC
- Energy-efficient wireless transmission techniques for MEC/FC
- Energy-efficient offloading techniques for MEC/FC
- Wireless charging techniques for MEC/FC
- Energy harvesting and offloading protocols for MEC/FC
- Energy management for MEC/FC
- Network slicing protocols for MEC/FC
- Resource allocation for MEC/FC with network slicing
- Energy-efficient design for MEC/FC with network slicing
- UAV-enabled techniques for MEC/FC
- Resource optimization for UAV-enabled MEC/FC
- Deep learning algorithms for MEC/FC
- Reinforcement learning for MEC/FC
- Deep reinforcement learning for MEC/FC
- Quality of computation provisioning in MEC/FC systems
- Cross-layer optimization for MEC/FC

The workshop will feature two keynote speeches as well as a panel discussion given by world leading researchers in the field.

The workshop accepts only original, and previously unpublished papers. All submissions must be formatted in standard IEEE camera ready format (double-column, 10pt font). The maximum number of printed pages is six (6) including figures without incurring additional page charges (6 pages plus 1 additional page allowed with a charge for the one additional page of USD 100 if accepted)

<http://icc2019.ieee-icc.org/authors>

Workshop website: <http://xxx> (TBD)