



# International Workshop on Architectures for Future Mobile Computing and Internet of Things

## FMCIoT'2019

Mobile phones and Internet of Things (IoT) devices are the top two largest categories of connected devices in 2018. With more than 15% compound annual growth rate, they are considered as one of today's hottest trends in both academia and industry. Both Mobile phones and IoT devices integrates different major technologies such as cloud services, big data, cloud computing, and wireless networking (Bluetooth, Wi-Fi, 5G, ...) in one platform that services the end users. According to Ericsson, there will be a total of approximately 28B connected devices worldwide by 2021 fairly distributed between Mobile phones and IoT devices. Despite this rapid growth, many issues at the intersection of Mobile computing and IoT are still challenging and need to be addressed. These challenges are related to the underlying communication networks, interaction with cloud services, security, the required Quality of Service, the availability of services, integration with next generation internet technologies, and many others.

### Held in conjunction with iThings-2019

The 2<sup>nd</sup> International Workshop on Architectures for Future Mobile Computing and Internet of Things (FMCIoT 2019) Workshop will be held in conjunction with the [12th IEEE International Conference on Internet of Things \(iThings2019\)](#). The FMCIoT 2019 workshop aims at soliciting original ideas on the broad area of Mobile and IoT architectures including challenges and opportunities, concepts and applications and future trends that addresses the aforementioned challenges. The workshop aims to facilitate discussions among academics and industry to bridge Mobile Computing and IoT practitioners and make positive contributions to the field.

### Submission

Authors are invited to submit original, unpublished manuscripts. Submitted papers should be in accordance with [IEEE format](#),

and will be reviewed by at least two expert reviewers in terms of relevance, originality, contribution, correctness, and presentation. Submission and acceptance deadlines:

**Submission deadline: March 15, 2019**

**Paper notifications: April 15, 2019**

**Paper camera ready due: May 31, 2019**

You are invited to submit original papers of up to 8 pages (or 10 pages with overlength charge) including figures and references, written in English and using the IEEE Computer Society Proceedings manuscripts style (two-column, single spaced, font size 10). Submissions must be PDF files in [IEEE format](#).

Accepted papers will be included in the conference proceedings published by the IEEE Computer Society Press (indexed by EI) and IEEE Xplore.

Submission link:

<https://edas.info/newPaper.php?c=24592&track=90016>

### Topics of interest

The topics of interest include but are not limited to:

- Emerging concepts of Mobile Computing and IoT
- Design methodologies for Mobile Computing and IoT
- Novel services and applications of IoT to facilitate environmental responsibility
- Mobile Cloud Computing and IoT Pricing and billing models
- IoT and Mobile Social benefits/impact
- Emerging IoT and Mobile Computing integration business models and process changes
- Communication systems and network architectures for the IoT and Mobile Computing
- Cloudlet based computing
- Fog based computing
- Lightweight authentication mechanisms in Mobile Computing and IoT architectures
- Information-Centric Networking for Mobile and IoT
- Software-Defined Networking for Mobile and IoT
- Mobile Computing and IoT Quality of Service (QoS) improvements techniques
- Mobile and IoT architecture features and evolution
- Mobile Cloud Computing and IoT Networking and Communication considerations
- Security of mobile commerce and mobile IoT
- IoT and Data Management
- Disaster recovery in mobile and IoT
- Applications of Internet of things
- Emerging applications and interaction paradigms for everyday citizens
- Big data for Mobile and IoT
- Cloud Computing and IoT

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