



# International Workshop on Architectures for Future Mobile Computing and Internet of Things FMCIoT'2022

Mobile phones and Internet of Things (IoT) devices are the top two most significant categories of connected devices in 2022. With a more than 15% compound annual growth rate, they are considered one of today's hottest trends in academia and industry. Both Mobile phones and IoT devices integrate significant technologies such as cloud services, big data, cloud computing, and wireless networking (Bluetooth, Wi-Fi, 5G, ...)

in one platform that services the end-users. Regardless of the COVID-19 pandemic and different issues with the general supply chain disruptions, in 2021, the number of global IoT active endpoints grew by 8% and is expected to grow by 18% to 14.4 billion active connections in 2022.

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 ICSOC 2022

The International Workshop on Architectures for Future Mobile Computing and Internet of Things (FMCIoT 2022) workshop will be held in conjunction with the [20th International Conference on Service-Oriented Computing \(ICSOC 2022\)](#)

The FMCIoT 2022 Workshop solicits original ideas on the broad area of Mobile and IoT architectures, including challenges and opportunities, concepts, applications, and future trends that address the challenges mentioned earlier. 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Authors are invited to submit original, unpublished manuscripts.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 [LNCS format](#), and will be reviewed by at least three expert reviewers in terms of relevance, originality, contribution, correctness, and presentation. Submission and acceptance deadlines:

**Submission deadline: September 25, 2022**

**Paper notifications: October 23, 2022**

**Paper camera ready due: October 30, 2022**

**Early registration deadline: October 30, 2022**

You are invited to submit original papers of up to 12 pages, written in English and compliant with the [Springer's LNCS format](#).

The Conference Publishing Services will publish the proceedings. Submissions must be PDF files in Springer's LNCS format.

## 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
- Emerging IoT and Mobile Computing integration business models and process changes
- Communication systems and network architectures for the IoT and Mobile Computing
- The future perspective for Mobile and IoT integration: Challenges and Open Issues
- 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
- Big data for Mobile and IoT
- Cloud Computing and IoT

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