International Workshop on Engineering IoT systems: Architectures, Services, Applications, and Platforms

http://IoT-ASAP.cs.upb.de

(tentative date) April 4, 2017, Gothenburg, Sweden

In conjunction with

IEEE International Conference on Software Architectures (ICSA 2017)

(http://icsa-conferences.org/2017/)

Key Dates

Paper submission deadline:	February 23, 2016
Paper acceptance notification:	March 10, 2016
Camera-ready accepted paper deadline:	March 16, 2016
Workshop:	April 4, 2016 (tentative date)

Workshop Overview

To exploit all the benefits of the Internet of Things (IoT), a wide range of challenges needs to be addressed. The objective of IoT-ASAP, International Workshop on Engineering IoT systems: Architectures, Services, Applications, and Platforms, is to bring together researchers and practitioners from several areas (e.g., Architecture, Internet of Things (IoT), Service-Oriented Computing, Self-Adaptive Systems, Multi-Agent Systems, User Interaction and Experience) to investigate and discuss state of the art, principles, challenges of, and (interdisciplinary) approaches for engineering IoT systems.

Topics related to IoT Architectures, Services, Applications, and Platforms include but are not limited to:

- Design approaches for IoT systems
- Architectural interoperability in IoT systems
- Quality aspects in the IoT (e.g., runtime dependability, assurances, validation, verification, privacy, security)
- Self-adaptation and context-awareness in the IoT
- User requirements specification and engineering for smart user-interactions in the IoT
- Discovery, composition and analysis of (intelligent) services and applications
- Engineering for emergent behavior/properties in the IoT
- (Continuous) deployment, composition, and monitoring in the IoT
- Autonomous agents and multi-agent IoT architectures, e.g., collaboration, coordination, reasoning, collective intelligence

- Model-driven engineering for IoT systems
- Frameworks and middleware for the IoT
- Cloud computing for the IoT
- State-of-practice, experience reports, industrial experiments, and case studies in the IoT
- Simulation techniques and tools for the IoT
- Inter-disciplinary approaches for building and adapting IoT systems
- Formal methods for IoT systems

Application areas include - but are not limited to:
- Smart Cities
- Smart Living, Smart Health, Smart Learning
- Smart Transportation
- Smart Energy
- Industry 4.0
- Consumer Electronics
- System of IoT Systems
- On-The-Fly Computing

Submissions

We welcome 8-page full papers and 4-page work-in-progress papers. The papers must follow ICSA technical papers formatting guidelines be submitted via https://www.easychair.org/conferences/?conf=ToDo. All accepted contributions will be published in the ICSA 2017 Proceedings and in the IEEE Digital Library.

Organizing Committee

Romina Spalazzese, Malmö University, Sweden

Marie C. Platenius, Paderborn University, Germany

Steffen Becker, TU Chemnitz, Germany

Gregor Engels, Paderborn University, Germany

To contact the organizers, send an email to romina.spalazzese@mah.se or m.platenius@upb.de.