



IoT-ASAP 2020 - Fourth International Workshop on Engineering IoT Systems: Architectures, Services, Applications, and Platforms

<https://iotasap.github.io/IoTASAP2020>

(tentative date) Sep 14, 2020, L'Aquila, Italy

In conjunction with European Conference on Software Architectures (ECSA 2020) <https://ecsa2020.disim.univaq.it/>

Key Dates

Paper submission deadline:	June 24, 2020
Paper acceptance notification:	July 13, 2020
Camera-ready accepted paper deadline:	July 20, 2020
Workshop:	September 14, 2020 (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 2020, Fourth International Workshop on Engineering IoT Systems: Architectures, Services, Applications, and Platforms, is to bring together researchers and practitioners from several areas (e.g., Architecture, IoT, Service-Oriented Computing, Self-Adaptive Systems, Multi-Agent Systems, Data Analytics, User Interaction and Experience) to investigate and discuss the latest R&D trends, 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, validation, verification, 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 in the IoT
- (Continuous) deployment, composition, and monitoring in the IoT
- Autonomous agents and multi-agent IoT architectures, e.g., collaboration, reasoning

- Model-driven engineering for IoT systems
- Frameworks and middleware for the IoT
- Cloud computing for the IoT
- Data analytics and machine learning for IoT
- State-of-practice, experience reports, industrial experiments, and case studies in the IoT
- Simulation techniques and tools for the IoT
- Interdisciplinary approaches for IoT systems
- Formal methods for IoT systems

Application areas include - but are not limited to:

- Smart Home, Smart Living
- Smart Cities, Smart Transportation, Smart Energy
- Smart Health, Smart Learning
- Industry 4.0 / Industrial Internet
- System of IoT Systems

Submissions

We welcome 12-14 page papers. The papers must follow the Springer Communications in Computer and Information Science (CCIS) proceedings papers formatting guidelines and be submitted via <https://www.easychair.org/conferences/?conf=iotasap2020>

IMPORTANT: We are ready to handle the different scenarios that might apply in mid-September due to COVID-19 according to ECSA organisers recommendations. *"Regardless of how COVID-19 will evolve, accepted contributions will be published by Springer. UnivaQ is ready to provide all speeches (onsite and distance) on live streaming" [from ECSA website, May 6th, 2020].*

Organizing Committee

Romina Spalazzese - Malmö University, Marie Platenius-Mohr - ABB Corporate Research

Ilias Gerostathopoulos - Vrije Universiteit Amsterdam, Steffen Becker - Universität Stuttgart

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