



3rd Workshop on Interoperability and Open-Source Solutions for the Internet of Things (InterOSS-IoT 2018)

(in conjunction with Global IoT Summit 2018)

Workshop website: <http://www.inteross.org/>

Organizing Committee	Call for Papers
<p>Workshop General Chairs: Ivana Podnar Žarko (University of Zagreb Faculty of Electrical Engineering and Computing, Croatia) Martin Serrano (INSIGHT, National University of Ireland Galway, Ireland) Arne Broering (Siemens, Germany) Sergios Soursos, Intracom Telecom, Greece</p>	<p>Internet of Things Interoperability resides on the principle of connecting a large number of devices to a global infrastructure to offer added value features and global services across IoT platforms. In the past years we have witnessed the consolidation of communication protocols connecting various devices and the advent of open source frameworks for IoT interoperability. Standardization initiatives, industry alliances, and collaborative research projects have developed solutions to address the challenge of IoT interoperability. Sensor, actuator, and “thing” description formats as well as communication protocols and APIs have been designed to build advanced cross-domain IoT solutions and entire ecosystems based on interoperable IoT platform technologies. The challenges ahead are to advance interoperable IoT technologies for handling complex tasks and global interconnected systems in trendy verticals with high impact on the society, e.g. smart cities and ports, healthcare, automated manufacturing lines, connected robots, or autonomous vehicles. Open source interoperability solutions and open standards remain a viable option to automate the collaboration between otherwise closed IoT platforms with key challenges related to semantics, uniform APIs, security, privacy and trust issues, as well as technology uptake with increasing deployments. Following the success of the previous two editions, the “3rd Workshop on Interoperability and Open-Source Solutions for the Internet of Things (InterOSS-IoT)” focuses on exploring the potential of interoperable IoT platform technology to facilitate and enhance the creation of complex systems and associated open source technology and open protocols. The workshop addresses current challenges in the IoT interoperability domain and promotes uptake of emerging open source solutions and best practices from IoT deployment experiences. Organized as a scientific event, workshop’s objective is to foster the exchange of practical experiences within the IoT community as well as contribute to create new ideas around open issues and gaps on Internet of Things platforms interoperability, architectural principles, standardization efforts, and deployment experiences. We invite authors to submit scientific papers reporting advance in the state of the art and practical experiences on interoperable IoT solutions, solutions relying on open-source software as well as emerging concepts and visionary papers. Topics of interest include (not limited to):</p> <ul style="list-style-type: none"> - IoT Principles, Design and Technology <ul style="list-style-type: none"> • Interoperability solutions for IoT systems and platforms • Standardisation efforts related to IoT solutions and Applications
<p>Technical Program Committee</p>	
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- Jelena Mitic, Siemens, Germany

Paper Submission Guidelines

All final submissions should be written in English with a maximum paper length of six (6) printed pages see web conference for instructions. Papers must be submitted through EDAS.

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Important Dates

Paper submission deadline: February 28, 2018
 Acceptance Notification: March 31, 2018
 Camera-Ready Paper Submission: April 30, 2018

- Key concepts for interoperable IoT architectures
- Semantic models for the IoT Platforms Data Exchange
- Security, privacy and trust for IoT Devices and Platforms
- IoT device Data Mash-Ups and platforms Orchestration
- Solutions for IoT platform federations and interworking
- Distributed ledger technology for interoperable IoT ecosystems

- IoT Experiments, Practice and Applications

- IoT applications and real life deployments, e.g., in Smart Cities, Healthcare, Industrial IoT, Robotics, Autonomous Vehicles
- Experiences from real industrial IoT deployments
- Recent advances in open source IoT platforms and tools
- Experimentally-driven Internet of Things experience
- Business perspectives on IoT ecosystem creation
- Business models and marketplaces

The workshop is organized by H2020 projects, symbloTe and BIG IoT, which are part of the European Platforms Initiative (IoT-EPI).

