

Preface

This volume contains the proceedings of the Workshop on Interoperability and Open-Source Solutions for the Internet of Things held in Split, Croatia, on September 18, 2014. The workshop was organized by the OpenIoT project with support from the European Commission under the 7th Framework Programme and in conjunction with the conference SoftCOM 2014: The 22nd International Conference on Software, Telecommunications, and Computer Networks.

The Internet of Things (IoT) can be seen as the next evolutionary step in the Internet lifecycle, with already more than 10 billion connected devices in 2013. However, to enable wide adoption and proliferation of IoT services, further development is needed in the area of interoperability and standardization as well as the convergence of the Web and IoT standards in the M2M space, e.g., W3C SSN, and OneM2M. We are also witnessing the emergence of open-source solutions targeting the IoT and cloud integration, which can further drive innovation and provision of utility-driven IoT services. The aim of the workshop was to address the aforementioned challenges by bringing together researchers and practitioners from industry and academia to showcase their practical work, exchange ideas and experiences, as well as discuss future developments in the area of interoperability and open-source solutions for the IoT.

The workshop featured two invited keynote talks, an invited presentation of the OpenIoT platform, 10 oral presentations of original scientific papers, and a demo session closely aligned to the workshop main topics. The original scientific papers presented at the workshop and accepted for publication in this volume underwent a rigorous two-step review process and acquired a total of three reviews, where two reviews were authored by the Technical Program Committee members from academia and one Technical Program Committee member from industry. There were 15 papers initially registered for presentation at the workshop and in the end of the review procedure 10 papers were selected for oral presentation at the workshop and publication in this volume of the workshop proceedings.

The main highlights in the Workshop Program were two keynote talks given by two distinguished speakers and a hands-on session demonstrating IoT solutions built on top of the Open-Source OpenIoT platform. Bill Weinberg, Senior Director from Open-Source Strategy Consulting at Black Duck Software, USA, presented his view on open-source strategies for driving the IoT, while Markus Weinberger, Director of Bosh IoT Lab, Switzerland discussed business ecosystems for IoT. Extended abstracts of keynote talks are included in this volume. The volume includes selected papers presenting open-source solutions targeting the IoT and cloud integration as well as implementations of IoT-related standards. Furthermore, it includes an invited overview paper introducing the OpenIoT platform and selected use cases in the area of IoT built on top of the OpenIoT platform. Since the papers included in this volume address topics that are highly related to a wide adoption and proliferation of IoT services, we hope that it will contribute to further drive innovation and provision of utility-driven IoT services.

We would like to express our thanks to the keynote speakers, Mr. Bill Weinberg and Dr. Markus Weinberger for their inspiring talks. The Chairs' special thanks go to the Technical Program Committee members for their valuable efforts in the review process. We cordially thank all the authors for their contributions, workshop participants for their interest and active involvement in the Workshop Program, as well as the organizers of the SoftCOM 2014 for providing an excellent workshop venue in Split, Croatia. Thank you all for making this workshop a valuable experience.

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