

Preface

This volume contains the proceedings of the Second Workshop on Interoperability and Open-Source Solutions for the Internet of Things (InterOSS-IoT) held in Stuttgart, Germany, on November 7, 2016, and co-located with the 6th International Conference on the Internet of Things (IoT 2016). The workshop was co-organized by the H2020 projects symbIoTe and BIG IoT, which are part of the Internet of Things European Platform Initiative (IoT-EPI) working on relevant aspects for enabling and bridging the gaps on IoT interoperability.

The evolution in the IoT domain has created a complex ecosystem populated by numerous platforms that provide access to a broad range of software objects (virtual) and real-world devices (physical) “things.” IoT-deployed platforms typically promote their specific interfaces and information models generating technology fragmentation gaps, and most likely adopt non-standard, and sometimes fully proprietary, protocols to control a variety of things. This reflects poorly on platform interoperability and creates a number of open issues and gaps. Platform fragmentation and lack of interoperability between current IoT solutions prevents the emergence of cooperative IoT ecosystems where applications can be built to use things operated by various IoT platforms, or simply to enable things operated by different platforms to interact and exchange information.

The InterOSS-IoT workshop featured an invited keynote talk and 13 oral presentations of original scientific papers. The event attracted around 40 participants who contributed constructively to all discussions. A big highlight of the event was the talk of the keynote speaker Ralph Müller, who did not fail to inspire the audience by giving great insights on the role of open source in the IoT domain. The volume includes selected and extended papers presented at the workshop covering a wide range of aspects related to IoT interoperability, such as semantics, security, business models, and applications. All papers underwent a rigorous two-step review process so that the final selection of 11 papers is included in this volume out of 17 papers that were initially submitted for review.

We would like to express our gratitude to the keynote speaker, Mr. Ralph Müller, for his inspiring talk. 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, the workshop participants for their interest and active involvement in the workshop program, as well as the organizers of the 6th International Conference on the Internet of Things (IoT 2016) for providing an excellent workshop venue. Thank you all for making this workshop a valuable experience.

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