Message from the IoTDI 2016 Program Chairs

Welcome to the inaugural edition of the International IEEE Conference on Internet-of-Things (IoT) Design and Implementation! This conference is created to offer a premier publication venue that covers a broad spectrum of systems issues related to the emerging field of the Internet of Things. The desire to start a new conference in the field was born out of an observation that while many publication venues exist today on different aspects of IoT, they are generally either more specialized or more regional. There is room for a new top conference that brings together researchers in academia, industry, and government around the growing interdisciplinary challenges related to IoT. Indeed, there are established top conferences in fields such as Cyber-Physical Systems (CPS), Networked Sensing, Networking, Mobile Computing, and Cloud Computing, but IoT systems span across the boundaries of these disciplines. No single current venue exists today that offers such a multidisciplinary perspective, motivated explicitly by IoT systems research. For example, while some conferences cover sensing and CPS, they do not necessarily cover cloud-related issues, and while others are premier venues on cloud computing, they do not cover front-end challenges. Most current conferences that are labeled IoT also specialize in a subset of topics, such as security, enterprise, or industrial perspectives.

With the above in mind, a new program committee was put together, composed of world experts on several fields deemed central to IoT problems, including CPS, Networking (with a focus on Networked Sensing), Mobile Computing, and Cloud Computing. More than 90 abstracts were submitted, out of which 55 full papers underwent the review process. Of these, 11 full contributed papers were selected. (In addition, 3 papers were accepted as short papers and 2 papers were withdrawn.) To complement the contributed program, 8 papers were invited on special topics appropriate to the inaugural issue. These papers covered general IoT visions from different perspectives (such as platforms, security, and mobility), as well as ways the Internet of Things changes existing Internet paradigms. The resulting program reflects what we believe to be the important research dimensions of IoT systems. Overall, this year's program features several full paper sessions, three keynote talks, a panel, and a short paper session. Sessions cover topics ranging from IoT enablers to architectural paradigms and novel services (both front-end and back-end). They also cover applications, from outdoor infrastructure to smart buildings and vehicular networks.

We hope you enjoy our inaugural program and contribute to future issues of this conference. We would like to thank the technical program committee for working hard on selecting the highest-quality papers that represent the intended scope. We also thank the general chairs and organizers' team for handling the many details that make a conference a success! It has been a great pleasure working with this team. Last but not least, we thank the authors and attendees for making this conference a reality. With your help, we hope this year will be the beginning of a successful and growing series. We look forward to seeing you again and wish you a great time in Berlin.

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