

Message from the IoTDI 2016 General Chairs

Welcome to Berlin, Germany's capital and a premier intellectual and cultural hub of the world. And, welcome to the First IEEE International Conference on Internet-of-Things Design and Implementation (IoTDI), the melting pot of ideas from researchers and practitioners involved in the development of IoT systems and applications. Sponsored by the IEEE Computer Society, and hosted on the campus of the Technical University of Berlin (TU Berlin), IoTDI 2016 features a full program intended to promote the exchange of information on design principles, enabling technologies, and practical experiences as they relate to the Internet of Things.

The Internet of Things is characterized by a confluence of many technological advances. Exponential instrumentation delivers the genesis point for understanding the world around us as billions of systems are developed and generate data at an unprecedented pace. As Cyber systems, physical systems, and social systems become ever interconnected, the separation between them increasingly blurs. Our planet is growing more intelligent, thanks to cognitive computing capabilities that transform big data into real-time actionable insights at a massive scale. IoTDI offers an interdisciplinary venue to discuss challenges, technologies, and emerging directions that pertain to the Internet of Things. Many sub-systems need to come together to address the needs of current and future IoT applications. These subsystems extend from cyber-physical front ends to cloud back ends. New, IoT-empowered medical, social, environmental, energy, and automation applications must be supported by advances in cloud resource management, data analytics, network protocols, and smart embedded devices. The IoTDI 2016 conference program is a testament to the exciting set of research and development challenges to be tackled.

We would like to acknowledge the tireless efforts of the Program Committee, led by Tarek Abdelzaher, Jiannong Cao, and Pedro Marron. We are also grateful to Mohamed Sarwat, Kun Bai, David Bermbach, Jatinder Singh, Dong Wang, and Dominik Ernst for their excellent work on managing conference publicity, logistics, proceedings, Web site, and finance. In addition, we want to express our deep appreciation to the Organizing Committee of the 2016 IEEE International Conference on Cloud Engineering (IC2E) for supporting the co-location of IoTDI and IC2E in 2016. Special thanks are due to Professor Stefan Tai, for hosting the joint conferences at TU Berlin and for his leadership on many fronts. Last for not least, we want to thank members of the IoTDI Steering Committee for their guidance and support.

We hope that you will enjoy the conference and the beautiful, historical city of Berlin, that you reap all the benefits the program has to offer, and that you will return to IoTDI for many years to come!

Hui Lei, *IBM*
Wei Zhao, *University of Macau*
IoTDI 2016 General Co-chairs