

Preface

In recent years, the widespread deployment of wireless sensor networks, industrial clouds, industrial robots, embedded computing, and inexpensive sensors has facilitated industrial Internet-of-Things (IndustrialIoT) technologies and fostered some emerging applications (e.g., product lifecycle management). IndustrialIoT constitutes the direct motivation behind industrial upgrading (e.g., the implementation of smart factory of Industrie 4.0).

With the support of all kinds of emerging technologies, IndustrialIoT is capable of continuously capturing information from various sensors and intelligent units, securely forwarding all the data to industrial cloud centers, and seamlessly adjusting some important parameters via a closed loop system. Also, IndustrialIoT can effectively detect failures and trigger maintenance processes, autonomously reacting to unexpected changes in production. However, we are still facing some challenges, for example, it is very difficult to capture, semantically analyze, and employ data in a coherent manner from heterogeneous, sensor-enabled devices (e.g., industrial equipment, assembly lines, and transport trucks) owing to the lack of measurement tools, collection protocols, standardized APIs, and security guidelines.

2016 International Conference on Industrial IoT Technologies and Applications was held on March 24–26, 2016 in Guangzhou, China. The conference is organized by the EAI (European Alliance for Innovation). The Program Committee received over 60 submissions from 6 countries and each paper was reviewed by at least three expert reviewers. We chose 26 papers after intensive discussions held among the Program Committee members. We really appreciate the excellent reviews and lively discussions of the Program Committee members and external reviewers in the review process. This year we chose three prominent invited speakers, Prof. Min Chen; Prof. Lei Shu and Prof. Yan Zhang.

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Jiafu Wan
Iztok Humar
Daqiang Zhang



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