Internet of Thing (IoT) has the potential to deliver exciting things across many sectors, from industry to social media and home. These networks of things are designed to measure real-world events and expected to control more than two billion connected devices to the internet by 2020. Due to the advantage of low-cost, easy to deploy, energy efficiency and mobility compared to the traditional applied field bus, industrial wireless sensor network has become a promising approach for manufactures as well as plant designers. With the paradigm of IoT, Industrial Wireless Sensor Networks (IWSNs) are evolving to the global interconnection between managements and factory products in large scale industry. It serves a link between data collected from heterogeneous sources on site and business backend.

Recently, IWSN integrated with IoT and Bigdata is an attractive choice for industrial processes. The large scale industry consists of dense wireless devices such as RFID tags for machine identification, sensors used for large scale rotational equipment monitoring and fault diagnosis and many more. With the data acquisition across heterogeneous sources and intelligent processing of gathered data, one important aspects is to predict any dangerous situation like leakage of toxic gas in large scale pipeline. Furthermore, the layout design procedure in industry to ensure connectivity and information flow is also a part of IoT paradigm. Thus, the main concerns of IWSN integrated with IoT and Bigdata are capability, reliability and cost. In this special issue, we are interested in exploring recent emerging technologies and research developments on industrial networks and intelligent systems to advance the step towards the smarter plants integrated with IoT and Bigdata. We welcome paper submissions from both academic and industrial societies.

List of interested research topics, but not limited:

- Industrial Internet of Things
- Software defined networks for industrial networks
- IoT and Future Internet Architectures
- Cloud Computing For Intelligent Industrial Processing Management
- Intelligent Middleware for Industrial Networks and Systems Integration
- Intelligent Energy Harvesting Technologies for Industrial Networks
- Big Data and Cloud Computing, Large Scale Industrial Plants on the Cloud
- Big Data Analysis on Communications-Surveillance Data, Metadata, and Multimedia
- Sensors Data Management, IoT Mining and Analytics
- Distributed Sensing and Control, Routing and Control Protocols
- Crowd-Sensing, Human Centric Sensing
- Smart Grid, Energy Management
- Intelligent Energy Harvesting Technologies for Industrial Networks
Submission:

Paper submission to this special issue should follow the author guidance and manuscript requirement of ACM/Springer Mobile Networks and Applications.

Important Dates:

Submission Deadline: 30 March 2017
First Round Notification: 30 May 2017
Final Notification: 30 July 2017

Guest Editors:

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Mithun Mukherjee, Guangdong University of Petrochemical Technology, China
Celimuge Wu, University of Electro-Communications, Japan
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