

## **IEEE Internet of Things Journal Special Issue on Enabling Massive IoT with 6G: Applications, Architectures, Challenges and Research Directions**

Driven by the Internet of Things (IoT) enabled massively data-intensive applications like VAR-based gaming, there is a need for technological advancements and evolutions for wireless communications beyond the fifth-generation (5G) networks. The wireless data traffic is estimated to reach 4394 EB by 2030 (Source: ITU), and 5G will be unable to provide support to most of these advanced applications. Here, 6G is expected to extend the 5G capabilities to very high levels where millions of connected devices and applications could operate seamlessly with high data rates and low latency. 6G would thus play a major role in supporting massive interconnectivity in IoT with highly diverse service requirements.

Efficient and smart preparation via sizable and intensive research connecting academia and industry is required to meet the exceptional demands of ubiquitous connectivity in future 6G enabled IoT and IoE networks. This special issue aims to provide the scientific community with a comprehensive overview of innovative technologies, advanced architectures, and potential challenges for 6G enabled massive IoT. Prospective authors are invited to submit original manuscripts on topics including, but not limited to, the following:

- Network architectures for 6G enabled massive IoT
- Resource allocation and energy efficiency in 6G enabled massive IoT
- Breakthrough technologies and concepts
- Key drivers and requirements
- Advanced sensors and sensing techniques for 6G enabled massive IoT
- Big data analytics and privacy-preserving techniques
- Vulnerabilities, threat models and risk management in 6G enabled massive IoT
- Interoperability between 6G and various IoT applications
- SDN/NFV design for massive IoT connections
- Spectrum and channel modelling for 6G enabled massive IoT
- Edge computing for 6G enabled massive IoT
- Interoperability and service provisioning

### **Important Dates:**

Submission Deadline: October 1, 2020

First Review Due: December 15, 2020

Revision Due: January 30, 2021

Second Review Notification: March 1, 2021

Final Manuscript: March 15, 2021

Publication Date: 2021

### **Submission Guidelines:**

Authors need to follow the manuscript format and an allowable number of pages described at <https://iee-iotj.org/guidelines-for-authors/>. To submit a manuscript for consideration for the special issue, please visit the journal submission website at <https://mc.manuscriptcentral.com/iot>.

### **Guest Editors:**

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