Accurate Synchronization in IoT

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Message from the Guest Editors

Internet of Things (IoT) combined with Wireless Sensor Networks (WSN) have experienced a great evolution in the last decade, opening the door to new and enhanced applications that in some scenarios can require high accurate synchronization.

Due to their poor performance and quality of their clocks, usually time synchronization is in the order of milliseconds and a higher precision is a great challenge. However, using advanced synchronization protocols, emergent communication technologies, such as Ultra Wide Band (UWB), and/or tuning slightly these nodes, we can achieve this time accuracy. This Special Issue on "Accurate synchronization in IoT" aims to gather all these recent developments and advances to share with the research community.

Topics of interest include but are not limited to the following areas:

- Ultra Wide Band communications
- IoT applications requiring accurate synchronization
- Network timing
- Synchronization protocols
- Modulations and symbol correlation
- IEEE 802.15.4 transceivers
- Open source solutions
- Real deployments with high synchronization
- Alternative solutions to high synchronization

Special Issue

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Message from the Editor-in-Chief

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