Applications of Internet of Things and Intelligent Sensors in Remote Sensing

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Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Intelligent sensors, the work horses of the Internet of Things (IoT), have permeated smart environments, including autonomous vehicles, military applications and supply chain industry. For quite a while, deploying active sensors in remote areas and open spaces has been limited due to a lack of opportunities to power them cheaply. This difficulty could change dramatically due to the ongoing competition to derive energy from space and drive power innovation and novel wireless power technologies. Power from space would not just enable strategic military applications, but also civil applications in cities, remote regions and smart environments. Hence, increasingly more IoT systems are expected to be integrated with artificial intelligence, increasing smart IoT, enabling automation and securing IoT systems, potentially activating billions of sensing and networking devices. The result would be high-density IoT networks, platforms and, subsequently, dense big data transfers worldwide. We gradually inch towards a programmable and automated world, the true vision of Industry 4.0 and Industry 5.0. It is, therefore, timely and reasonable to explore this technology frontier in a real sense.

Special Issue

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Message from the Editor-in-Chief

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