



Internet of Remote Things for Remote Sensing

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Message from the Guest Editors

The Internet of Things (IoT) is a key paradigm in Industry 4.0 scenarios. Beyond those, the potential shown by the use of IoT solutions is significant also in a plethora of different application fields. Recently, the use of IoT has been proposed also in satellite-based scenarios, giving birth to the so-called Internet of Remote Things (IoRT). Thus, the combination of remote sensing, as enabled by aerospace solutions such as satellites and unmanned aerial vehicles (UAVs) that are proving increasingly indispensable for remote sensing, and IoT sensing on the ground can provide a new and powerful tool to make services more profitable and competitive. Thus, it is essential to deepen the investigation on the potential provided by joint solutions, and by long-range solutions (such as LoRa that is consolidating as a one-way solution from ground to space). IoRT can be further enhanced by techniques like distributed and federated learning for object recognition and anomaly detection. Typical scenarios are agricultural, maritime, monitoring, and surveillance.





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