

High-resolution and Large-scale Assessment of Environmental Parameters Using Remote Sensing Data

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Message from the Guest Editors

Data acquisition by large-scale Earth Observation (EO) using remote sensing (e.g., optical imagery, SAR, and LiDAR) and in-situ sensing has increased more than tenfold in the past few years. This enables new opportunities for better decision-making and monitoring capabilities of microclimate parameters within urban and rural environments. Environmental simulations using EO data are now among the most promising solutions to assess complex environmental parameters more accurately in spatial and temporal dimensions. Due to their importance, these environmental issues have also been raised within the UN Sustainable Development Goals for good health and well-being (Goal 3), as well as for sustainable cities and communities (Goal 11). However, various state-of-the-art environmental simulations and modelling algorithms still provide insufficient spatial resolution when being utilized over large-scale areas.

In this Special Issue, we invite various researchers to share their state-of-the-art environmental simulations and modelling algorithms, as well as their applications over different end-user domains, by utilizing both high-resolution and large-scale remote sensing data. The Special Issue is not limited to environmental simulations and can include their further interconnection with spatial analysis and modelling, geovisualisation, geocomputation, and big data analytics.





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