Special Issue

Application of Proximal and Remote Sensing in Sustainable Urban and Peri-Urban Governance

Message from the Guest Editors

Remote sensing, using both remote and proximal technologies, is a crucial tool for the sustainable management of urban and peri-urban areas. These technologies enable the detailed monitoring of the territory, effectively addressing environmental and urban challenges. In particular, remote sensing is essential for hydrogeological risk prevention, a growing issue in urban areas that is exacerbated by soil sealing and poor land-use planning. Remote sensing also plays a key role in managing urban heat islands, a phenomenon caused by heat accumulation in urbanized areas. Thermal sensors, both satellite-based and drone-mounted, enable the temperature monitoring and identification of critical areas, leading to interventions like urban parks, green roofs, and ecological corridors, which reduce local temperatures, improve the microclimate, and promote biodiversity. Overall, integrating remote sensing into urban management enables efficient, data-driven solutions, improving resilience to climate change, enhancing quality of life, and supporting sustainable planning for the future.

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