

Quantification of urban green areas: An innovative remote sensing approach for official statistics

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Abstract

One of the most studied 'objects' in remote sensing is certainly vegetation. There are numerous spectral indices developed by specialists aiming to highlight certain aspects of the vegetation cover (i.e., water stress, biomass quantification, fire damages, etc.). In our analysis, starting with high-resolution remote sensed images (AGEA Orthophotos with 20 and 50 cm pixel resolution), some of the most used vegetation indices are calculated to extract statistics related to the total vegetation cover in the major Italian urban centres.

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