remote sensing

an Open Access Journal by MDPI

IMPACT FACTOR 4.848

CITESCORE 6.6 SCOPUS

Urban Vegetation and Ecology Monitoring Using Remote Sensing

Guest Editor:

Dr. František Zemek
Global Change Research Institute, CAS, Czech Republic

zemek.f@czechglobe.cz

Deadline for manuscript submissions:
1 June 2022

Message from the Guest Editor

Increasing urbanization, coupled with the impacts of climate change, has generated efforts to understand how different urban landscape elements and their spatial composition affect the local environment.

Urban greenery with its potential for carbon sequestration, air filtering, noise reduction, microclimate regulation, etc., provides a range of environmental and social services that benefit city residents and visitors. However, the quantification of such services requires detailed data and information about individual greenery elements, their structural characteristics, interaction with, and impact on the neighborhood.

Different categories of remote sensing data at high spatial and spectral resolution offer great potential to identify greenery elements, their properties, and an impact on the environment, e.g., surface/air town temperatures.

The Special Issue seeks multidisciplinary contributions with innovative and original approaches in getting different parameters of urban greenery from RS data on the scale of individual elements, their spatial configuration, and the relationships to the urban environment.