# Special Issue

# High Spectral Resolution Remote Sensing of Soil Organic Carbon Dynamics

## Message from the Guest Editors

Soil organic carbon (SOC) in croplands is responsive to changes in management and/or land use. Over the last decades, a substantial inter- and intrafield variability has developed, impacting food security and with the potential for negative CO2 emissions. The prediction of soil properties, such as SOC, is not straightforward due to the variable spectral response of organic matter, resulting in a lack of clear and narrow spectral features. This Special Issue calls for efficient methods improving the quantification of SOC based on visNIR spectroscopy data, including the calibration of spectral models acquired from the laboratory to remote sensing platforms using spectral libraries, development of adequate databases, development of algorithms enhancing the detection of exposed cropland soils, techniques for increasing the spatial coverage of SOC maps by, e.g., mosaicking images acquired at different periods, and the demonstration of spaceborne applications from current or future sensors. Contributions on digital soil mapping—that allow topsoil SOC concentrations to be converted to changes in SOC stocks, from a field to regional scale—will be appreciated.

## Guest Editors

Prof. Dr. Bas van Wesemael

Dr. Florian Wilken

Prof. Dr. Sabine Chabrillat

## Deadline for manuscript submissions

closed (31 October 2020)

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### Message from the Editor-in-Chief

*Remote Sensing* is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

### Editor-in-Chief

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