



Remote Sensing for Crop Water Stress Detection and Irrigation Management

Guest Editors:

Dr. Yafit Cohen

Agricultural Engineering Institute,
Agricultural Research
Organization (ARO), Volcani
Center, Rishon-Le-Zion, Israel

Dr. Carlos Ballester Lurbe

Centre for Regional & Rural
Futures (CeRRF), Faculty of
Science Engineering & Built
Environment, Deakin University,
Hanwood, NSW 2680, Australia

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Message from the Guest Editors

Dear Colleagues,

Due to population growth and increasing food demands, irrigated agriculture will increasingly take place under water scarcity. Thus, management techniques that can produce ‘more crop per drop’ will assume increased importance. Remote sensing data can be used to assess crop water status in the field, to estimate evapotranspiration, to delineate homogeneous management zones, and ultimately characterize and analyze them to produce application or prescription maps for variable rate irrigation. Remote sensing data provides a wide range of use levels, from mapping crop variability to measuring and mapping plant water status that supports irrigation actions that would have positive influence on irrigation water productivity and/or harvest outcome.

Dr. Yafit Cohen
Prof. George Vellidis
Dr. Carlos Ballester Lurbe
Guest Editor





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Remote Sensing Editorial Office
MDPI, St. Alban-Anlage 66
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