Special Issue

Remote Sensing Estimation Methods of Evapotranspiration, Soil Moisture and Plant Water Status

Message from the Guest Editors

Crop evapotranspiration, soil moisture content and plant water status are mutually connected variables of vital interest for agrometeorology, hydrology, agricultural water management and climate change related studies. With a growing requirement for water usage and limiting water reserve accessibility, a compelling need emerges to enhance daily monitoring/estimation of soil water balance components and to support a more efficient management of resources. This Special Issue encourages the submission of review and research articles with a particular focus on the accurate estimation of crop evapotranspiration, soil moisture and plant water status based on remote sensing datasets (multispectral, hyperspectral and radar). There is great potential in the advance of this topic that includes evolving domais such as the use of cloud-based access and processing policy (e.g., Google Earth Engine), machine learning algorithms, advanced operating high signal-to-noise ratio earth observation spectrometers, and smart precision farming strategies and policies oriented to sustainable agricultural development and hydrological applications.

Guest Editors

Prof. Dr. Mladen Todorovic

Dr. Nada Mzid

Dr. Vito Cantore

Dr. Rossella Albrizio

Deadline for manuscript submissions

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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