Special Issue

Earth Observation for Sustainable Agricultural Water Management

Message from the Guest Editors

This Special Issue aims to bring together cutting-edge research, methodological advances, and practical applications that leverage EO data and related technologies for sustainable agricultural water management. In particular, we welcome contributions that explore the integration of EO data with ground-based measurements, modeling frameworks, and data analytics techniques to assess and manage water use across diverse agroecosystems. For this reason, we invite high-quality interdisciplinary studies that include (but are not limited to) the following areas:

- Applications of multispectral, hyperspectral, thermal, and SAR data for estimating crop evapotranspiration, plant water status, and irrigation performance;
- Mapping irrigated areas and assessing spatiotemporal dynamics of agricultural water demand;
- Data fusion, artificial intelligence, and machine learning approaches for water-use monitoring and decision support.

Keywords: earth observation; water demand; precision agriculture; remote sensing; machine learning; sustainable water management; soil-plant-atmosphere interactions

Guest Editors

Dr. Grazia Tosi
Department of Agricultural, Food and Environmental Sciences, University of Perugia, Perugia, Italy

Dr. Alessandra Vinci
Department of Agricultural, Food and Environmental Sciences, University of Perugia, Perugia, Italy

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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

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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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