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Remote Sensing for Drought Monitoring and Forecasting

Guest Editors:

Dr. Massimiliano Pasqui
Institute for the Bioeconomy, National Research Council, Italy

Dr. Ramona Magno
Institute of Bioeconomy, National Research Council, 50019 Sesto Fiorentino, Italy

Dr. Luca Brocca
Research Institute for Geo-Hydrological Protection, National Research Council, Via della Madonna Alta, 126, 06128 Perugia, Italy

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Message from the Guest Editors

The drought is a creeping and complex phenomenon with different types of impacts. Drought dynamic reveals a time gap between the onset phase of an event and the management phase of the consequent emergency. The reliable early identification of drought episodes, along with their evolution scenarios, would significantly increase the ability to deal with and manage periods of agro-ecosystem stress or water scarcity. The nexus among local knowledge elements, scientific data, and the use of indicators related to them could significantly improve the identification of the human societal negative consequences of drought.

The recent development of satellite-based remote sensing techniques and in situ sensors has increased our ability to observe the state of agro-ecosystems on Earth. Thus, by increasing our level of understanding the evolution of drought and by identifying risks and negative impacts earlier, we could now better contribute to improving risk mitigation processes in agro-ecosystems, food production, and food security systems worldwide.

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Editors-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

Message from the Editorial Board

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Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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remotesensing@mdpi.com
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