



Remote Sensing in Hydrological Modelling

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Deadline for manuscript
submissions:

closed (31 December 2018)

Message from the Guest Editors

The objective of this Special Issue is to describe state-of-the-art applications of satellite remote sensing in hydrological modelling. Contributions presenting the use of new algorithms and/or new EO data to assess land surface variables impacting the energy and water cycles at regional or global scales are expected. The research presented might focus on:

- Innovative methods and observations to map land use and catchment characteristics and to characterize atmospheric forcing, especially rainfall and snowfall and their spatial and temporal variability.
- Innovative methods and observations to retrieve or monitor hydrological variables or parameters such as soil moisture, snowpack, evapotranspiration, interception, etc.
- New approaches to assess observations and model uncertainties.
- New approaches and metrics to evaluate hydrological models.
- Advanced methods to upscale/downscale hydrological variables.
- Innovative techniques to assimilate EO products in hydrological models.
- Advanced applications in irrigation hydrology and water management, including hydrological monitoring and forecasting.
- Review papers on potential and limitations of various EO products.

