



Remote Sensing of Surface Runoff

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Message from the Guest Editor

Dear Colleagues,

Surface runoff includes a variety of hydrological processes crucial for understanding and modelling, among others, water resources management, flood formation, and erosion dynamic.

Recent innovation and advancement in sensors, computational power, and monitoring platforms are rewording the meaning of remote sensing that was previously limited to satellite observations. Nowadays, CubeSat systems, drones, radar technology, and image analysis are augmenting the remote sensing perspective and the field of surface runoff observations may greatly benefit from such multidisciplinary approaches.

The aim of this Special Issue is to collect contributions providing innovative surface runoff remote sensing applications at different spatial scales related, but not limited, to:

- Hydrometric observation;
- River velocity measurements;
- Hillslope runoff velocity estimation;
- Soil water content estimation;
- Water stress estimation;
- Floodplain and flood inundation observations.
- Role of vegetation land cover and land use activities

Dr. Salvatore Grimaldi

Guest Editor





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Message from the Editor-in-Chief

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