



UAS and Satellite-Based Remote Sensing for Hydrological Observations and Applications

Guest Editors:

Dr. Silvano Fortunato Dal Sasso

Department of European and Mediterranean Cultures, Architecture, Environment, and Cultural Heritage (DICEM), University of Basilicata, 75100 Matera, Italy

Dr. László Bertalan

Department of Physical Geography and Geoinformatics, University of Debrecen, Debrecen, H-4032 Egyetem tér 1, Hungary

Deadline for manuscript submissions:

closed (31 March 2024)

Message from the Guest Editors

In recent years, advances in Remote Sensing observations allowed us to improve our monitoring capabilities with regard to the hydrological variables of the water cycle, such as *precipitation, evapotranspiration, soil moisture* and *river flow*. Satellite missions have been developed to characterize such variables at regional to global scale (with coarse and intermediate resolution), and UAS data are used to bridge the scales from point-to-catchment scale observations (with high spatial and temporal resolution).

This Special Issue will promote advances in Satellite and UAS methodologies for monitoring hydrological variables, exploring uncertainty and sensitivity assessments. We welcome contributions with strong relevance to the characterization of hydraulic and hydrological processes and the development of modeling approaches. Studies that propose technical solutions to combine large-scale observations and local observations, as well as modeling and big data analytics tools, are encouraged.

