



an Open Access Journal by MDPI

Remote Sensing of Hydrological Processes: Modelling and Applications

Guest Editors:

Dr. Sandra G. García Galiano

Department of Mining and Civil Engineering, Universidad Politecnica de Cartagena, Paseo Alfonso XIII, 52, 30203 Cartagena, Spain

sandra.garcia@upct.es

Dr. Fulgencio Cánovas García

Department of Geography, History and Humanities, Universidad de Almería, Ctra. Sacramento s/n, La Cañada de San Urbano, 04120 Almería, Spain

fulgencio.canovas@ual.es

Dr. Juan Diego Giraldo-Osorio

Civil Engineering Department, Pontificia Universidad Javeriana, Carrera 7a No. 40-62, Bogotá, Colombia

j.giraldoo@javeriana.edu.co

Deadline for manuscript submissions:

31 January 2022



mdpi.com/si/73006

Message from the Guest Editors

This Special Issue aims to disseminate state-of-the-art research articles and emerging ideas using remote sensing and geospatial technologies of water cycle processes, including:

- New methods and techniques, particularly related with the development and application of satellite missions, radar, airborne and drone sensors, to monitor spatially distributed hydrological processes (such as precipitation, evapotranspiration, soil moisture, groundwater infiltration, and surface water runoff) as well as wetlands and water bodies, across a wide range of temporal scales;
- New techniques to use spatially distributed remote sensing data for spatial calibration and validation of hydrological models, suitable for ungauged basins;
- Use of remote sensing data for global and regional hydrological applications and water resource management, to support decision taking as a way to predict and resolve water conflicts in a changing climate and with increasing demands on limited water supplies; and
- Application of remote sensing for the study of the impact of human activities on the hydrological cycle (especially infiltration and runoff generation); floods, droughts and water resource availability.