



Emerging Techniques and Applications of Polarimetric SAR

Guest Editors:

Dr. Luis Gómez Déniz

CTIM, University of Las Palmas de Gran Canaria, EIIIC, Campus Tafira, Pabellón A, Las Palmas de Gran Canaria, 35017, Las Palmas, Spain

luis.gomez@ulpgc.es

Prof. Dr. Raydonal Ospina

Department of Statistics, CastLab, Federal University of Pernambuco, Recife/PE, 50740-540, Brazil

raydonal@de.ufpe.br

Deadline for manuscript submissions:

31 August 2021

Message from the Guest Editors

Dear Colleagues,

SAR (synthetic aperture radar) and PolSAR (polarimetric SAR) systems are powerful remote sensing systems able to monitor the whole planet at unprecedented levels of precision to provide highly valuable information. Such systems offer huge data to researchers and to final users to assist on monitoring/planning land information: urban areas, land cover (deforestation, cover vegetation, soil moisture), and also retrieving oceanic information (oil spills detection) and water resources, among other applications of interest.

In order to fully extract information from the data, new methods and strategies are strongly required. Fortunately, computational capabilities have also experimented on an increase in their capabilities, allowing to process data in a more efficient way through multicore/GPU resources. This Special Issue focuses on exploring new techniques for the data-to-information process for SAR/PolSAR systems. Pattern recognition and machine learning methods built on suitable statistical models closely linked to the data are the main interest of this Special Issue, although it is also open to theoretical and physical SAR/PolSAR models.

