



Application of Microwave Remote Sensing in Earth's Surface Observation

Guest Editor:

Message from the Guest Editor

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The aim of this Special Issue is to take stock of the current state of knowledge on the interactions (emission and scattering) of microwaves with land surfaces (namely, bare rough soils, agricultural and forest vegetation, dry and wet snow cover, ocean and sea ice) for a quantitative estimate of geophysical parameters from the presently available and recent planned satellites. To do this, contributions could involve both experimental and theoretical studies concerning observations of the Earth's surface using Radar (SAR and Scatterometers), Microwave Radiometers and the more recent sensors such as GNSS-R satellites.

Some potential topics of interest for this Special Issue are the potential of X band and lower frequencies in snow cover surveys in mountainous regions; capability of monitoring liquid water in wet snow; estimating vegetation biomass and sensitivity to soil moisture in dense forests. Suggestions for future satellites (including geostationary systems) are welcome.





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