



## Radio Frequency Interference (RFI) in Microwave Remote Sensing

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### Message from the Guest Editors

Dear Colleagues,

New technologies and consumer applications increasingly need to use radio frequencies. This is pushing demand for frequency spectrum to unprecedented levels, and as a result both active and passive spaceborne microwave remote sensing instruments are experiencing problems with the Radio Frequency Interference (RFI) more and more often. RFI are strongly affecting microwave satellite borne missions, like radiometers, and Synthetic Aperture Radar, from LEO missions to GNSS and geosynchronous SAR sensors. The huge increase in WLAN and wireless devices, their expansion in C band, and the RFI generated by direct or backscattered signal, either in-band or by harmonics harms the present and future generation of spaceborne remote sensing.

This special issue will cover the different aspects of RFI, such as detection and mitigation of interference from different levels: from mission levels (swarms or distributed sensors), to a signal processing perspective and hardware design, encompassing both active and passive sensors. It also aims to include report of RFI observations, together with their trend, and to inform on the latest regulatory developments in spectrum management.





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