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Design and Calibration of Microwave Radiometers and Scatterometers for Remote Sensing of the Earth

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Deadline for manuscript submissions:
closed (30 November 2021)

Message from the Guest Editor

Spaceborne microwave and millimeter-wave radiometers and scatterometers remain among the most valuable tools for accurate global measurements of the Earth's land, ocean surface, and atmospheric properties and processes. Numerical weather prediction and climate monitoring have, in the past 30+ years, come to depend on these sensors. At the same time, radio frequency and digital technologies have emerged which pose both a threat—from radio frequency inter inference (RFI)—and an opportunity in the form of new low-power RF and signal processing hardware with ever-greater capabilities at lower costs. In this Special Issue, we invite papers to discuss technology and engineering trends pertaining to the design and calibration of these sensors. Suggested subjects include, but are not limited to lightweight deployable antennas, RF topologies and internal calibrator circuitry, multiply redundant calibration schemes, and digital back-end designs.

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Message from the Editor-in-Chief

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