



Applications of Synthetic Aperture Radar (SAR) for Land Cover Analysis

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Message from the Guest Editor

SAR is a unique technology that provides new opportunities for the interpretation of remote sensing data derived from space and airborne data acquisition systems. In particular, the increasing number of satellites equipped with SAR data acquisition systems that are being launched with a range of characteristics are enabling a better understanding of the earth's environment, such as for vegetation analysis, forest inventories, land subsidence, and urban analysis. As well, airborne systems for remote piloted systems and ground-based systems are available. This Special Issue focuses on the development of SAR technologies and applications of SAR, or new developments of SAR technologies, including wide band multi-polarized arrays; digital beamforming; bistatic and multi-static modes; improved methods of interpretation of SAR data for soil moisture monitoring, crop growth, forest biomass and forest characteristics, and urban analysis; as well as improved methods interferometry and integrated polarimetry and differential interferometry for elevation determinations and land subsidence. In car SAR systems for vehicle navigation will also be included in this Special Issue.





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