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Remote Sensing of Ecosystem Structure and Function Dynamics Due to Climate Change and Human Activities

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Message from the Guest Editors

Climate change and human activities are constantly shaping and changing the natural environment. Ecosystem structure and function are changing accordingly. The process, rate and extent of these changes have significant differences in time and space dimensions. How to establish quantitative assessment indicators and technical methods on the regional scale, and then accurately depict the characteristics and laws of ecological change, is the scientific basis for guiding ecological protection, restoration and management decisions. At present, technologies such as ecosystem ground observation networks, UAV and satellite remote sensing observation have the ability to quickly obtain the change information of ecosystems and ecological elements on a continuous space-time scale and can provide support for the development of the theoretical framework of ecological change assessment, indicator quantification and model optimization. This Special Issue is intended to provide a platform for academic exchange regarding progress in assessing ecosystem structure and function changes due to climate change and human activities.



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