Special Issue

Applications of Remote Sensing to Forest Ecology and Environmental Monitoring

Message from the Guest Editor

Forest ecosystem is the most active terrestrial ecosystem that possessing exceptional value for global biodiversity conservation, ecosystem services and human well-being. Forest degradation and biodiversity losses caused by land conversion and over-use have strongly increased since the mid-20th century in many forested localities globally. Meanwhile, forest transitions, defined as a shift from net deforestation to net reforestation, have occurred widely and rapidly over recent decades. Reforestations including both active tree planation and spontaneously natural regeneration are expected to have considerable potential to contribute to climate mitigation, biodiversity conservation, and sustainable development goals. Remote sensing technology has tremendous potential to map, quantify, and monitor forest change at various spatial and temporal scales. Advanced studies on applications of remote sensing to a broad scope of forest ecology and environmental monitoring will help people improve global forest management, and guide future ecosystem restoration and sustainable development.

Guest Editor

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