



## State-of-the-Art Remote Sensing in South America

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Deadline for manuscript  
submissions:

**closed (31 March 2022)**

### Message from the Guest Editors

South America is a geo-diverse continent, home of several terrestrial biodiversity hot spots, and freshwater reservoirs with rich fishery biodiversity and vegetation varying from high-density tropical rainforest to grasslands. South American ecosystems are vulnerable to extreme climate change events, which can dramatically affect the forest, grasslands, surface water, glaciers, land productivity, and human wellbeing. Land use is another driver that modifies land cover on this continent. The interaction of land-use change with climate change on the land cover is not well understood in South America. The combined effect of climate change and land-use drivers can accelerate ecosystem tipping points, unlocking carbon from soil and vegetation to the atmosphere, altering the hydrological cycle, and lowering Net Primary Productive of aquatic and terrestrial ecosystems of this continent. Remote sensing has been vital to characterize land cover, land-use change, and climate change interactions in ecosystems of South America.





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