



# remote sensing



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## Remote Sensing Applications in Monitoring of Protected Areas

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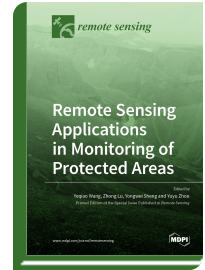
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Remote sensing has been successfully applied in monitoring of protected areas around the world. With intensified impacts of climate and environmental change, protected areas become increasingly important to serve as indicators of and buffers against the impacts of the disturbances. Remote sensing plays an irreplaceable role in this frontline of challenges. The subjects and contents of the articles collected in this book reflect the state-of-the-art applications of remote sensing for capturing dynamics of environmental and ecological variations of the protected areas. The examples include revealing the level, growth rate, trend, and distribution pattern of the night-time light of global protected areas; quantifying the energy budget, water cycle, and carbon sink over the Three-River Headwaters Region in the hinterland of the Tibetan Plateau; monitoring wetland change in a cross-boundary zone between Northeast China and the Russian Far East; and monitoring applications and change analyses in protected areas of boreal forests, dryland shrubs, coastal salt marshes, large lakes, and temperate semi-humid to semi-arid transitional agricultural regions, using a variety of sensor data with innovative approaches. Also included in this collection is a bibliometric analysis that suggests the intellectual structure in remote sensing of protected areas from the perspective of journal publications.



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