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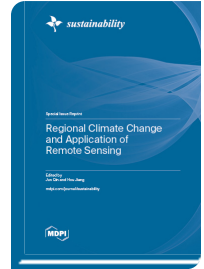
Regional Climate Change and Application of Remote Sensing

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This Reprint brings together innovative research on the use of remote sensing technology to address the regional impacts of climate change, emphasizing sustainable development. Climate change poses one of the greatest challenges of our era, driving changes in weather patterns, biodiversity, ecosystem health, and resource availability. This collection highlights the essential role played by remote sensing in monitoring these changes, offering critical insights into adaptive and mitigation strategies suited to diverse regional contexts. By presenting satellite-based analyses of extreme weather events, ecosystem responses, and resource assessments, this Reprint provides a comprehensive view of remote sensing applications for climate resilience.

In this Reprint, researchers and practitioners will find case studies and methodological advancements that showcase remote sensing's potential to quantify climate-induced changes and evaluate adaptation measures. This Reprint is an invaluable resource for scientists, policy makers, and professionals working in climate science, environmental monitoring, and sustainable development. The insights found within this Reprint aim to support data-driven decisions in adapting to and mitigating the complex challenges posed by a changing climate.

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