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Applications of Remote Sensing in Land–Atmosphere Interactions

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

New sensors and new applications are combining with advanced techniques to transform our understanding of land–atmosphere interactions. The abundance of data and new machine learning tools are transforming our understanding of coupled processes at a rapid scale. At the same time, the land surface is changing more rapidly than ever before, posing new challenges in capturing and explaining the impacts of a changing land surface on atmospheric processes.

This Special Issue is intended for the presentation of new ideas and applied results driven by remote sensing on all scales. Of particular interest are applications using newer imagery sources such as PlanetScope, ECOSTRESS, and similar sources. Research on a variety of topics including urban heat islands, agriculture, hydrologic changes, forest cover, and the changing Arctic are all welcome.

Keywords

land–atmosphere interactions; hydroclimatology; water cycling; drought; machine learning and hydrology; remote sensing; coupling strength

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Message from the Editor-in-Chief

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