



Geostatistics and Spatial Data Mining for Ecological Climatology

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Message from the Guest Editors

Scientists practicing ecological climatology now recognize that the patterns and processes of plant communities and ecosystems not only respond to weather, climate, and atmospheric compositions, but also feedback through a variety of physical, chemical, and biological processes to influence the atmosphere. The geoscientific understanding of planet Earth has given way to a new paradigm of biogeosciences. Geostatistical techniques have enabled geoscientists to commonly include spatial support and the principled handling of different spatial concepts.

With the emergence of the era of big data science, data availability from remote sensing platforms has been preferred over model-based approaches to handle big datasets. This drive toward data-oriented approaches, including spatial data mining and machine learning, has undoubtedly brought tremendous innovation in the field of ecological climatology as well.

The articles can related to, among others, climate change, global warming, ecosystem degradation, physiological response, ecosystem resilience, ecosystem services, lidar remote sensing, spatial data mining, machine learning, and big data analytics.





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Message from the Editor-in-Chief

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