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Spatial Statistics publishes articles on the theory and application of spatial and spatio-temporal statistics. It favours manuscripts that present theory generated by new applications, or in which new theory is applied to an important practical case. A purely theoretical study will only rarely be accepted. Pure case studies without methodological development are not acceptable for publication.

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INTRODUCTION

Spatial Statistics will be the new leading platform in the field of spatial statistics. It publishes articles at the highest scientific level concerning important and timely developments in the theory and applications of spatial and spatio-temporal statistics. It favors manuscripts that present theory generated by new applications, or where new theory is applied to an important spatial problem.

Spatial Statistics concerns the quantitative analysis of spatial data, including their dependencies and uncertainties. Spatio-temporal statistics extend this to the spatio-temporal domain. It addresses three major types of spatial data: lattice data, geostatistical data that represent continuous spatial variation and spatial point data. These data all share a specific way of spatial dependence and a common hierarchical approach applies.

These types of data and dependence modeling have their logical extension into the space-time domain, where the relations remain similar, but estimation may be different. Methodology for spatial statistics is found in probability, stochastics and mathematical statistics as well as in information science. Typical applications are mapping of the data, assessing spatial data quality, modeling of the dependency structure and drawing valid inference on the basis of a limited set of data. Applications of spatial statistics may occur in but are not limited to the following fields: agriculture, geology, soils, hydrology, the environment, ecology, mining, oceanography, forestry, air quality, remote sensing, but also in social/economic fields like spatial econometrics, epidemiology and disease mapping.

This new journal favors manuscripts that present theory generated by new applications, or where new theory is applied to an important spatial problem. A purely theoretical study is acceptable if it includes a proper application, whereas a simple application without methodological development is not acceptable.

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