



Spatial Statistics: GeoSpatial Information Modeling and Thematic Mapping

Mohammed A. Kalkhan

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Geospatial information modeling and mapping has become an important tool for the investigation and management of natural resources at the landscape scale. **Spatial Statistics: GeoSpatial Information Modeling and Thematic Mapping** reviews the types and applications of geospatial information data, such as remote sensing, geographic information systems (GIS), and GPS as well as their integration into landscape-scale geospatial statistical models and maps.

The book explores how to extract information from remotely sensed imagery, GIS, and GPS, and how to combine this with field data—vegetation, soil, and environmental—to produce a spatial model that can be reconstructed and displayed using GIS software. Readers learn the requirements and limitations of each geospatial modeling and mapping tool. Case studies with real-life examples illustrate important applications of the models.

Topics covered in this book include:

- An overview of the geospatial information sciences and technology and spatial statistics
- Sampling methods and applications, including probability sampling and nonrandom sampling, and issues to consider in sampling and plot design
- Fine and coarse scale variability
- Spatial sampling schemes and spatial pattern
- Linear and spatial correlation statistics, including Moran's I , Geary's C , cross-correlation statistics, and

inverse distance weighting

- Geospatial statistics analysis using stepwise regression, ordinary least squares (OLS), variogram, kriging, spatial auto-regression, binary classification trees, cokriging, and geospatial models for presence and absence data
- How to use R statistical software to work on statistical analyses and case studies, and to develop a geospatial statistical model

The book includes practical examples and laboratory exercises using ArcInfo, ArcView, ArcGIS, and other popular software for geospatial modeling. It is accessible to readers from various fields, without requiring advanced knowledge of geospatial information sciences or quantitative methods.

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