GIST

'Ideal for anyone who wishes to gain a practical understanding of spatial statistics and geostatistics. Difficult concepts are well explained and supported by excellent examples in R code, allowing readers to see how each of the methods is implemented in practice.'

Professor Tao Cheng, University College London

'A remarkable roadmap to the methods of spatial statistics … case studies and computer code make the book extraordinarily interactive and will benefit both students and applied researchers across many disciplines.'

W. Ryan Davis, University of Texas at Dallas

'This is a valuable and enjoyable addition to applied spatial statistics, particularly because the reader, or rather user, of the book can see exactly what the authors are doing, and so may reproduce all the analyses using the code provided.'

Professor Roger S. Bivand, Norges Handelshøyskole Norwegian School of Economics

Spatial Statistics and Geostatistics is the definitive text on spatial statistics. Its focus is on spatial statistics as a distinct form of statistical analysis and it includes computer components for ArcGIS, R, SAS, and WinBUGS. The objective of the text is to illustrate the use of basic spatial statistics and geostatistics, as well as the spatial filtering techniques used in all the relevant programs and software.

A systematic overview of the fundamental spatial statistical and geostatistical methods, it explains and demonstrates methods and techniques in:

- spatial sampling
- spatial autocorrelation
- spatial composition
- local statistics
- methods for spatial interpolation in two-dimensions
- advanced topics including Bayesian methods, Monte Carlo simulation, error and uncertainty analysis

Fully explanatory, *Spatial Statistics and Geostatistics* uses boxed computer code, diagrams, illustrations, and includes further readings. Case study and exemplary materials and data sets are also included.

Yongwan Chun is a faculty member at The University of Texas at Dallas.

Daniel A. Griffith is an Ashbel Smith Professor at The University of Texas at Dallas.

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