



# Spatial Statistics and Geostatistics: Theory and Applications for Geographic Information Science and Technology (SAGE Advances in Geographic Information Science and Technology Series)

By Yongwan Chun, Daniel A. Griffith

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"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*

Focusing specifically on spatial statistics and including components for ArcGIS, R, SAS and WinBUGS, this book illustrates the use of basic spatial statistics and geostatistics, as well as the spatial filtering techniques used in all relevant programs and software. It explains and demonstrates techniques in:

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

It is a systematic overview of the fundamental spatial statistical methods used by applied researchers in geography, environmental science, health and epidemiology, population and demography, and planning.

A companion website includes digital R code for implementing the analyses in specific chapters and relevant data sets to run the R codes.

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## **Editorial Review**

### **Review**

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**Professor Tao Cheng**

**University College London**

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This text is a remarkable roadmap to the methods of spatial statistics and in particular, the technique of spatial filtering. The included case studies and computer code make the book extraordinarily interactive and will benefit both students and applied researchers across many disciplines.

**W. Ryan Davis**

**PhD Candidate in Economics, University of Texas at Dallas**

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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**

SAGE has a long tradition of publishing accessible texts explaining key concepts in statistics. This book is in my opinion very useful. I particularly like the choice of statistical problems, the focus on one region to explain a series of problems and the availability of R code, which makes it easy for the reader to reproduce the analysis.

(Sietse O Los 2013-09-17)

## **Users Review**

### **From reader reviews:**

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