



Quantitative Geography: Perspectives on Spatial Data Analysis

By A. Stewart Fotheringham, Chris Brunsdon, Martin Charlton

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Integrating a discussion of the application of quantitative methods with practical examples, this book explains the philosophy of the new quantitative methodologies and contrasts them with the methods associated with geography's 'Quantitative Revolution' of the 1960s. Key issues discussed include: the nature of modern quantitative geography; spatial data; geographical information systems; visualization; local analysis; point pattern analysis; spatial regression; and statistical inference. Concluding with a review of models used in spatial theory, the authors discuss the current challenges to spatial data analysis.

Written to be accessible, to communicate the diversity and excitement of recent thinking, **Quantitative Geog**

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Editorial Review

Review

`This is a veritable tour de force of everything that is exciting about quantitative geography and GIS. It is a timely, thorough and exciting account of the state of the art and science of spatial analysis' - **Paul Longley, University of Bristol**

`A highly innovative and up-to-date text. It is unique in its coverage of the many developments that have taken place in the field over the past few years. The book is one that is highly readable and stimulating for those with some background in the field, and its expository style and many examples will make it stimulating to newcomers as well' - **Peter Rogerson, State University of New York at Buffalo**

`Brings the field thoroughly up to date, integrating modern methods of GIS with a comprehensive and easy-to-read overview of the most recent and powerful techniques of spatial analysis. The book will be valuable to students and researchers in any discipline that seeks to explore or explain phenomena in geographical context, and will make excellent reading for geographers, political scientists, criminologists, anthropologists, geologists, epidemiologists, ecologists, and many others. It offers a spirited challenge to critics of a scientific approach to social science, and demonstrates the value of its subject matter through abundant examples' - **Michael Goodchild, National Center for Geographic Information and Analysis, University of California, Santa Barbara**

`There is a view within some parts of academic geography that what used to be called "quantitative geography" is dead, having been subsumed within "geographical information systems" or else of no continuing interest. This book should correct this view. First, it shows that quantitative methods have remained an exciting area of development and, second, it shows that, if anything, they have more relevance to substantive problems of interest than they have ever had. Although not specifically about GIS, it is a book that should be read by everyone concerned with the analysis of geographical

information' - **David Unwin, Birkbeck College, University of London**

About the Author

Chris Brunsdon is Professor of Geocomputation at the National University of Ireland, Maynooth. He studied Mathematics at the University of Durham and Medical Statistics at the University of Newcastle upon Tyne, and has worked in a number of universities, holding the Chair in Human Geography at Liverpool University before taking up his current position. His research interests are in health, crime and environmental data analysis, and in the development of spatial analytical tools, including Geographically Weighted Regression approach. He also has interests in the software tools used to develop such approaches, including R.

Background:

Martin is an expert in the use of Geographical Information Systems and has been a leading researcher in this area for over 20 years. Until recently he was a lecturer in GIS at the University of Newcastle-upon-Tyne.

Research:

Martin, together with Stewart Fotheringham and Chris Brunsdon, is one of the originators of Geographically Weighted Regression, for which he has written much of the software.

Users Review

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Jerry Gavin:

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