



Geocomputation: A Practical Primer

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"Brunsdon and Singleton offer a unique contribution to the zeitgeist of geocomputation... The authors offer a wide array of applications brought by leading scholars in the field of Geographic Information Science, spatial analysis and spatial modelling. The role of new techniques that are revolutionizing the usage of geocomputation is well explored and the systematic approach the book adopts in envisioning available tools is appropriately constructed. This book is a great contribution for an advancing field, and a much welcomed achievement for the growth of a new kind of spatial science."

- *Eric Vaz Director of the Laboratory for Geocomputation, Ryerson University*

Geocomputation is the use of software and computing power to solve complex spatial problems. It is gaining increasing importance in the era of the 'big data' revolution, of 'smart cities', of crowdsourced data, and of associated applications for viewing and managing data geographically - like Google Maps. This student focused book:

- Provides a selection of practical examples of geocomputational techniques and 'hot topics' written by world leading practitioners.
- Integrates supporting materials in each chapter, such as code and data, enabling readers to work through the examples themselves.

Chapters provide highly applied and practical discussions of:

- Visualisation and exploratory spatial data analysis
- Space time modelling
- Spatial algorithms
- Spatial regression and statistics
- Enabling interactions through the use of neogeography

All chapters are uniform in design and each includes an introduction, case studies, conclusions - drawing together the generalities of the introduction and specific findings from the case study application – and guidance for further reading.

This accessible text has been specifically designed for those readers who are new to Geocomputation as an area of research, showing how complex real-world problems can be solved through the integration of technology, data, and geocomputational methods. This is the applied primer for Geocomputation in the social sciences.

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