



Exploring Spatial Scale in Geography

By Christopher D. Lloyd



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Exploring Spatial Scale in Geography provides a conceptual and practical guide to issues of spatial scale in all areas of the physical and social sciences. Scale is at the heart of geography and other spatial sciences. Whether dealing with geomorphological processes, population movements or meteorology, a consideration of spatial scale is vital.

Exploring Spatial Scale in Geography takes a practical approach with a core focus on real world problems and potential solutions. Links are made to appropriate software environments with an associated website providing access to guidance material which outlines how particular problems can be approached using popular GIS and spatial data analysis software.

This book offers alternative definitions of spatial scale, presents approaches for exploring spatial scale and makes use of a wide variety of case studies in the physical and social sciences to demonstrate key concepts, making it a key resource for anyone who makes use of geographical information.

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Editorial Review

Review

"The type of reader who would likely gain from the book is from the last group, the researcher seeking an annotated bibliography. Each chapter ends with suggestions for further reading. Extensive references are cited at the back of each chapter rather than at the end of the book. The index is quite valuable and was accurate for all the terms I checked."

--Mathematical Geosciences 2015

"This book provides a systematic and comprehensive account of the many spatial analytic methods useful for understanding the implications of spatial scale for geographical data. The author effectively and concisely covers a wide range of methods, using a variety of different data sets and examples."

--International Journal of Geographical Information Science, 2015

From the Back Cover

Exploring Spatial Scale in Geography provides a conceptual and practical guide to issues of spatial scale in all areas of the physical and social sciences. Scale is at the heart of geography and other spatial disciplines; whether dealing with geomorphological processes, population movements or meteorology, a consideration of spatial scale is vital.

This book offers alternative definitions of spatial scale, presents approaches for exploring spatial scale, and makes use of a wide variety of case studies in the physical and social sciences to demonstrate key concepts. It consists of three integrated strands. The first is conceptual, outlining some definitions of spatial scale and debating the meaning and value of concepts of scale. The second strand outlines methods for exploration of spatial scale including standard measures of spatial autocorrelation, fractals, wavelets, multilevel models and geostatistical measures. The third and final strand demonstrates the application of these concepts and methods to real world case studies.

The author takes a practical approach and links are made to appropriate software environments, with an associated website providing access to guidance material which outlines how particular problems can be approached using popular GIS and spatial data analysis software. As such, it is a key resource for GIS professionals, academics and postgraduate students in geography, environmental science, civil and environmental engineering, remote sensing, archaeology and

About the Author

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