



# Geographic Information Systems and Science

*Paul A. Longley, Mike Goodchild, David J. Maguire, David W. Rhind*

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The Third Edition of this bestselling textbook has been fully revised and updated to include the latest developments in the field and still retains its accessible format to appeal to a broad range of students.

Now divided into five clear sections the book investigates the unique, complex and difficult problems that are posed by geographic information and together they build into a holistic understanding of the key principles of GIS.

This is the most current, authoritative and comprehensive treatment of the field, that goes from fundamental principles to the big picture of:

- GIS and the New World Order
- security, health and well-being
- digital differentiation in GIS consumption
- the core organizing role of GIS in Geography
- the greening of GIS
- grand challenges of GIScience
- science and explanation

## **Key features:**

- Four-colour throughout
- Associated website with free online resources
- Teacher's manual available for lecturers
- A complete learning resource, with accompanying instructor links, free online lab resources and personal syllabi
- Includes learning objectives and review boxes throughout each chapter

## **New in this edition:**

- Completely revised with a new five part structure: Foundations; Principles; Techniques; Analysis; Management and Policy
- All new personality boxes of current GIS practitioners
- New chapters on Distributed GIS, Map Production, Geovisualization, Modeling, and Managing GIS

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