



GIS Algorithms (SAGE Advances in Geographic Information Science and Technology Series)

Ningchuan Xiao

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Geographic information systems (GIS) have become increasingly important in helping us understand complex social, economic, and natural dynamics where spatial components play a key role. The critical algorithms used in GIS, however, are notoriously difficult to both teach and understand, in part due to the lack of a coherent representation. **GIS Algorithms** attempts to address this problem by combining rigorous formal language with example case studies and student exercises.

Using Python code throughout, Xiao breaks the subject down into three fundamental areas:

- Geometric Algorithms
- Spatial Indexing
- Spatial Analysis and Modelling

With its comprehensive coverage of the many algorithms involved, **GIS Algorithms** is a key new textbook in this complex and critical area of geography.

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