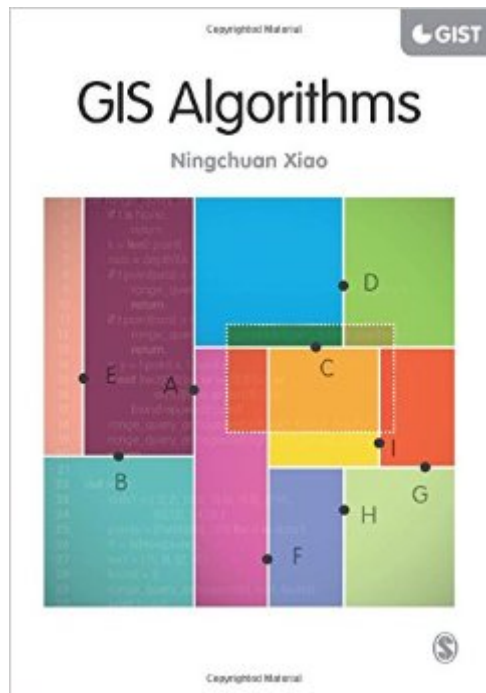# GIS Algorithms (SAGE Advances In Geographic Information Science And Technology Series)

Synopsis

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.

Book Information

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Customer Reviews

This is a well thought out book and the first of its kind that I have seen. I was looking for something that gave examples of how to implement spatial statistics algorithms in python without relying on ArcGIS or any other outside software. It is pretty straightforward and to the point with short descriptions and code examples that function. I'm glad I purchased it. Minus two stars because I couldn't find a code repository or associated website.

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