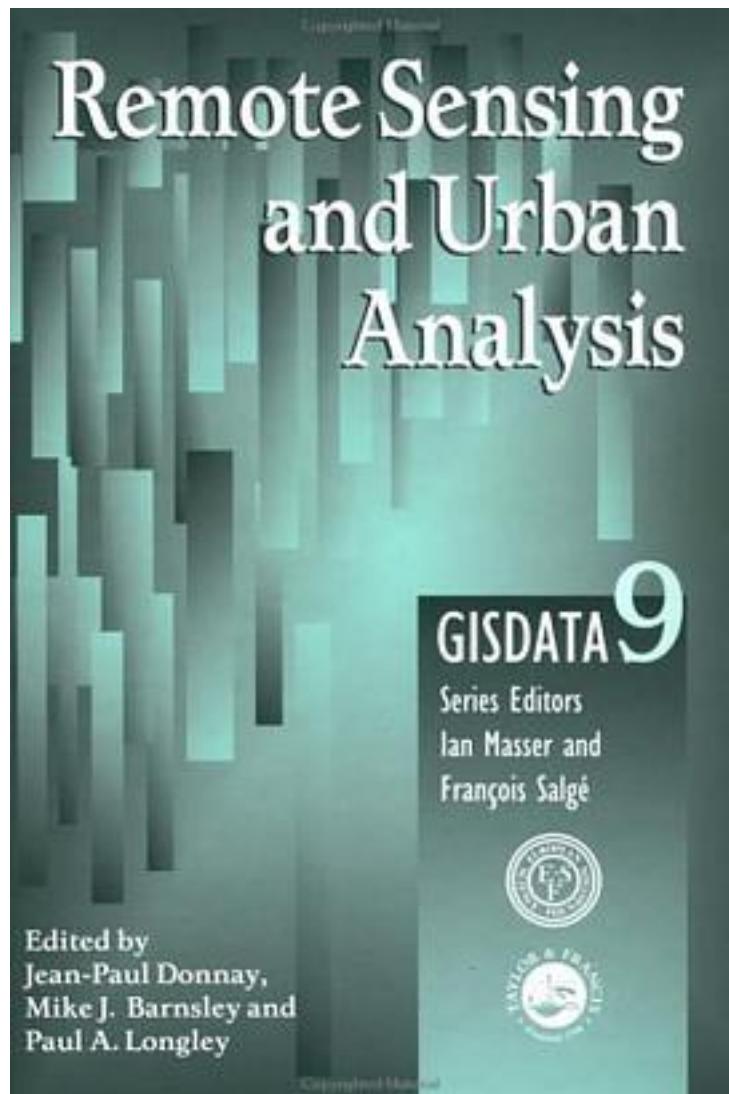


Remote Sensing and Urban Analysis



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The remote sensing of human settlements depends on exogenous data and GIS functionalities. Urban remote sensing has the distinctive characteristic of allowing the combination of physical and morphological data with socio-economic data, but is not yet functioning to a high degree of operationality. A wide range of methodologies for the production and analysis of urban remote sensing data are outlined in this book. To begin with, a number of techniques are examined for the extraction of information which can be applied to digital, multispectral images of urban areas. These include improvements to conventional per-pixel image classification algorithms, various methods of image fusion, the application of syntactic pattern recognition techniques, the role of mathematical morphology, and geostatistical approaches to the analysis and interpretation of image textural and spatial patterns. The book then moves on to the identification of urban forms, the delineation of agglomerations, and the measurement of urban morphology. Surface models are considered, for the analysis of integrated data sets, in which the scope of the applications is widened to consider the estimation of human population levels.

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