



Urban Remote Sensing: Monitoring, Synthesis and Modeling in the Urban Environment

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Urban Remote Sensing is designed for upper level undergraduates, graduates, researchers and practitioners, and has a clear focus on the development of remote sensing technology for monitoring, synthesis and modeling in the urban environment. It covers four major areas: the use of high-resolution satellite imagery or alternative sources of image date (such as high-resolution SAR and LIDAR) for urban feature extraction; the development of improved image processing algorithms and techniques for deriving accurate and consistent information on urban attributes from remote sensor data; the development of analytical techniques and methods for deriving indicators of socioeconomic and environmental conditions that prevail within urban landscape; and the development of remote sensing and spatial analytical techniques for urban growth simulation and predictive modeling.

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Editorial Review

Review

“This book is a great addition to the very few books on urban remote sensing.” (*Photogrammetric Engineering and Remote Sensing*, 1 March 2013)

“This excellent textbook provides a thorough grounding in the uses and types of remote sensing techniques employed for analyzing population, energy use, and other aspects of the urban environment.” (Book News, 1 August 2011)

From the Back Cover

Urban Remote Sensing is a ‘state-of-the-art’ review of the latest development in the subject. It examines how the modern concepts, technologies and methods in remote sensing can be effectively used to solve problems relevant to a wide range of topics extending beyond urban feature extraction into areas of urban socioeconomic and environmental analyses and predictive modeling of urbanization. The text covers the advances in sensors and algorithms for deriving urban attribute information, clearly explains how to integrate remote sensing and relevant geospatial techniques for developing indicators of urban socioeconomic and environmental status, and creatively explores the roles of remote sensing and dynamic modeling techniques for urban growth simulation and prediction.

Chapters are written by leading scholars and researchers from a variety of fields, including remote sensing, geocomputation, geography, urban planning and environmental science, with case studies predominately drawn from North America and Europe.

- An introduction to a broad vision of urban remote sensing research that draws upon a number of disciplines to support monitoring, synthesis and modeling in the urban environment
- Illustrated in full color throughout, including numerous relevant case studies and extensive discussions of important concepts and cutting edge technologies to enable clearer understanding for non-technical audiences
- This book will be invaluable to upper-division undergraduate and graduate students, researchers and professionals working in the fields of remote sensing, geographic information systems, urban planning, geography, and environmental science.

Users Review

From reader reviews:

Gerald Dews:

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Tessie Springfield:

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