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Nota di contenuto	Front Cover; Contents; Foreword: GEO-A Globally Integrated Approach to Urban Monitoring; Editor; Contributors; MATLAB® Statement; Chapter 1: What Is Special about Global Urban Remote Sensing?; Chapter 2: Global Urban Observation and Information : GEO's Effort to Address the Impacts of Human Settlements; Chapter 3: EO Data Processing and Interpretation for Human Settlement Characterization : A Really Global Challenge; Chapter 4: Urban Observing Sensors; Chapter 5: Mapping Global Human Settlements Pattern Using SAR Data Acquired by the TanDEM-X Mission Chapter 6: National Trends in Satellite-Observed Lighting : 1992-2012 Chapter 7: Development of a Global Built-Up Area Map Using ASTER Satellite Images and Existing GIS Data; Chapter 8: Building of a Global Human Settlement Layer from Fine-Scale Remotely Sensed Data; Chapter 9: Spatial Dynamics and Patterns of Urbanization : The Example of Chinese Megacities Using Multitemporal EO Data; Chapter

10: Mapping and Monitoring of Refugees and Internally Displaced People Using EO Data; Chapter 11: Assessment of Fine-Scale Built-Up Area Mapping in China
Chapter 12: Climatological and Geographical Impacts on the Global Pandemic of Influenza A (H1N1) 2009
Chapter 13: Investigations of the Diurnal Thermal Behavior of Athens, Greece, by Statistical Downscaling of Land Surface Temperature Images and Pattern Analysis; Chapter 14: Integrated Urban Sensing in the Twenty-First Century; Chapter 15: Object-Based Image Analysis for Urban Studies; Chapter 16: Defining Robustness Measures for OBIA Framework : A Case Study for Detecting Informal Settlements
Chapter 17: Automated Techniques for Change Detection Using Combined Edge Segment Texture Analysis, GIS, and 3D Information
Chapter 18: Fusion of SAR and Optical Data for Urban Land Cover Mapping and Change Detection; Back Cover

Sommario/riassunto

Cities and towns are the original producers of many of the global environmental problems related to waste disposal, air and water pollution. There is a rapidly growing need for technologies that will enable monitoring of the world's natural resources and urban assets, and managing exposure to natural and man-made risks. The Group on Earth Observation calls for strengthening the cooperation and coordination among global observing systems and research programs. The book introduces this important international collaborative effort, reviews the current state of global urban remote sensing, and expands on future directions in the field. --
