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Note generali	"In this context, the editors of this volume had a long-time paper selection process extracted from 169 papers submitted to the 7th GiT4NDM-5th EOGC 2015 (December 8-10, 2015, UAE University, UAE)."
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Part I. Land Use and Land Cover Change -- Examining the Effect of Land Use on the Spatiotemporal Dynamics of Urban Temperature in an Industrial City: A Landsat Imagery Analysis -- The study of Multi-Temporal Analysis of Urban Development and Environmental Changes of the City of Abu Dhabi -- CRF-based Simultaneous Segmentation and Classification of High-Resolution Satellite Images -- The Dynamic of Dike-Pond System in the Pearl River Delta during 1964-2012 -- Part II. Agriculture Monitoring -- Effects of irrigation and nitrogen on maize growth and yield components -- A Review of the Effects of Drought on the Grain Yield in the Vays, Mollasani and Salamat Regions of the Khuzestan Province -- Part III. Smart City -- Communicating Disaster

Risk Reduction through Web-map Applications -- Mapping sand dune fields in Abu Dhabi Emirate over the period of 1992-2013 using Landsat data -- Spatio–temporal Analysis and Image Registration for Studying Growth of Transportation Infrastructure in Sharjah City, UAE -- Part IV. Climate Change -- Assessment of the potential impacts of sea level rise on the Coastal Plain of Al Batinah, Sultanate of Oman -- Climate Change and Insecurity: An Examination of Gombe State's Predicament in the North-Eastern Nigeria -- Climate Change and Forced Migration from Ngala and Kala-Balge LGAs, N.E. Borno State, Nigeria -- Part V. Risk Assessment -- Detection of Areas Associated with Flash Floods and Erosion Caused by Rainfall Storm Using Topographic Attributes, Hydrologic Indices, and GIS -- Collapse assessment of substandard concrete structures for seismic loss estimation of the building inventory in the UAE -- Slope Stability Risk Management in Open Pit Mines -- Part VI. Disaster Management -- Status of Spatial Analysis for Urban Emergency Management -- Experimental Study of the Mechanics of Gypsum Seam Hazard for Abu Dhabi.

Sommario/riassunto

This book presents ongoing research and ideas related to earth observations and global change, natural hazards and disaster management studies, with respect to geospatial information technology, remote sensing, and global navigation satellite systems. Readers will discover uses of advanced geospatial tools, spatiotemporal models, and earth observation systems. Chapters identify the international aspects of the coupled social, land and climate systems in global change studies, and consider such global challenges as agriculture monitoring, the smart city, and risk assessment. The work presented here has been carefully selected, edited, and peer reviewed in order to advance research and development, as well as to encourage innovative applications of Geomatics technologies in global change studies. The book will appeal not only to academicians, but also to professionals, politicians and decision makers who wish to learn from the very latest and most innovative, quality research in this area of global change and natural disaster management. Contributions are drawn from revised submissions based on state-of-the-art papers from the 7th GiT4NDM - 5th EOGC, 2015 event. .