

Environmental Science

Joseph L. Awange  
John B. Kyalo Kiema

# Environmental Geoinformatics

Monitoring and Management



Springer

# Environmental Geoinformatics Monitoring And Management Environmental Science And Engineering

**Claus Rautenstrauch, Susanne Patig**



## **Environmental Geoinformatics Monitoring And Management Environmental Science And Engineering:**

Environmental Geoinformatics Joseph L. Awange, John B. Kyalo Kiema, 2013-06-13 There is no doubt that today perhaps more than ever before humanity faces a myriad of complex and demanding challenges These include natural resource depletion and environmental degradation food and water insecurity energy shortages diminishing biodiversity increasing losses from natural disasters and climate change with its associated potentially devastating consequences such as rising sea levels These human induced and natural impacts on the environment need to be well understood in order to develop informed policies decisions and remedial measures to mitigate current and future negative impacts To achieve this continuous monitoring and management of the environment to acquire data that can be soundly and rigorously analyzed to provide information about its current state and changing patterns and thereby allow predictions of possible future impacts are essential Developing pragmatic and sustainable solutions to address these and many other similar challenges requires the use of geodata and the application of geoinformatics This book presents the concepts and applications of geoinformatics a multidisciplinary field that has at its core different technologies that support the acquisition analysis and visualization of geodata for environmental monitoring and management We depart from the 4D to the 5D data paradigm which defines geodata accurately consistently rapidly and completely in order to be useful without any restrictions in space time or scale to represent a truly global dimension of the digital Earth The book also features the state of the art discussion of Web GIS The concepts and applications of geoinformatics presented in this book will be of benefit to decision makers across a wide range of fields including those at environmental agencies in the emergency services public health and epidemiology crime mapping environmental management agencies tourist industry market analysis and e commerce or mineral exploration among many others The title and subtitle of this textbook convey a distinct message Monitoring the passive part in the subtitle refers to observation and data acquisition whereas management the active component stands for operation and performance The topic is our environment which is intimately related to geoinformatics The overall message is all the mentioned elements do interact and must not be separated Hans Peter Bahr Prof Dr Ing Dr h c Karlsruhe Institute of Technology KIT Germany

**Environmental Geoinformatics** Joseph Awange, John Kiema, 2018-12-08 This second edition includes updated chapters from the first edition as well as five additional new chapters Light detection and ranging LiDAR CORONA historical declassified products Unmanned Aircraft Vehicles UAVs GNSS reflectometry and GNSS applications to climate variability shifting the main focus from monitoring and management to extreme hydro climatic and food security challenges and exploiting big data Since the publication of first edition much has changed in terms of technology and the demand for geospatial data has increased with the advent of the big data era For instance the use of laser scanning has advanced so much that it is unavoidable in most environmental monitoring tasks whereas unmanned aircraft vehicles UAVs drones are emerging as efficient tools that address food security issues as well as many other contemporary challenges Furthermore

global navigation satellite systems GNSS are now responding to challenges posed by climate change by unravelling the impacts of teleconnection e g ENSO as well as advancing the use of reflected signals GNSS reflectometry to monitor e g soil moisture variations Indeed all these rely on the explosive use of big data in many fields of human endeavour Moreover with the ever increasing global population intense pressure is being exerted on the Earth s resources leading to significant changes in its land cover e g deforestation diminishing biodiversity and natural habitats dwindling fresh water supplies and changing weather and climatic patterns e g global warming changing sea level Environmental monitoring techniques that provide information on these are under scrutiny from an increasingly environmentally conscious society that demands the efficient delivery of such information at a minimal cost Environmental changes vary both spatially and temporally thereby putting pressure on traditional methods of data acquisition some of which are highly labour intensive such as animal tracking for conservation purposes With these challenges conventional monitoring techniques particularly those that record spatial changes call for more sophisticated approaches that deliver the necessary information at an affordable cost One direction being pursued in the development of such techniques involves environmental geoinformatics which can act as a stand alone method or complement traditional methods

Kenya: A Natural Outlook John B. Kyalo Kiema, 2013-10-22 This chapter begins with a synopsis of the basic concept of remote sensing with the various stages and interactions that characterize the entire remote sensing process described A brief recapitulation of the status of stored water in Kenya is then presented The monumental challenge facing many poor Kenyan households in accessing clean and safe water in sufficient quantities is reiterated The chapter underscores the critical value of accurate and timely geospatial and hydro meteorological datasets in supporting integrated water resources management It is argued that the availability of techniques that deliver information on the changes in stored water at a more local scale is the first step towards realizing an efficient water society Finally two case studies that employ diverse remote sensing datasets to provide an evidence based explanation of the decline in stored water in Lakes Victoria and Naivasha are elucidated

**Lake Victoria Monitored from Space** Joseph Awange, 2020-12-17 This book employs a suite of remotely sensed products and advanced technologies to provide the first comprehensive space based sensing of Lake Victoria the world s second largest freshwater lake that supports a livelihood of more than 42 million people modulates regional climate but faces myriads of challenges Proper understanding of the lake and changes in its physical dynamics e g water level shorelines and areal dynamics resulting from the impacts of climate variation and climate change as well as anthropogenic e g hydropower and irrigation is important for its management as well as for strategic development before during and after climate extremes e g floods and droughts in order to inform policy formulations planning and mitigation measures Owing to its sheer size and lack of research resources commitment by regional governments that hamper its observations however it is a daunting task to undertake studies on Lake Victoria relying solely on in situ boots on the ground measurements which are sparse missing in most cases inconsistent or restricted by governmental red tapes To

unlock the potentials of Lake Victoria this book argues for the removal of obsolete Nile treaties signed between Britain Egypt and Sudan in the 1920s and 1950s which prohibits its utilization by the upstream countries The book is useful to those in water resources management and policy formulations hydrologists environmentalists engineers and researchers In a unique cross disciplinary approach the Book articulates the various climatic impacts and explanations from natural and anthropogenic origins which affected Lake Victoria and its vicinity including the drastic increase and depletion of water level in the Lake and dams floods and droughts water quality security crop health food security and economic implications With no exception as in his many publications Joseph L Awange used data analysis methodologies including filtering adjustment theory and robust statistics to quantify the hydrologic and other parameters and their estimated uncertainties The Book is recommended for readers from a diverse disciplines including physical and social sciences policy law engineering and disaster management Professor C K Shum Ohio State University *Earth Observation in Urban Monitoring* Amit Kumar, Prashant K. Srivastava, Purabi Saikia, Rajesh Kumar Mall, 2023-11-09

*Earth Observation in Urban Monitoring* Techniques and Challenges presents the latest techniques of remote sensing in urban monitoring along with methods for quantitative and qualitative assessment using state of the art Earth observation technologies The book details the advances of remote sensing technologies in urban environmental monitoring for a range of practical and research applications Earth observation datasets remote sensing of environmental considerations geostatistical techniques and resilience perspectives Chapters cover sensor applications urban growth modelling SAR applications surveying techniques satellite time series analysis and a variety of other remote sensing technologies for urban monitoring Each chapter includes detailed case studies at a variety of scales and from a variety of geographies offering up to date global urban monitoring methodologies for researchers scientists and academics in remote sensing geospatial research environmental science and sustainability Focuses on a variety of interdisciplinary applications using Earth observation data GIS and soft computing techniques to address various challenges in urban monitoring Provides numerous case studies at a variety of scales from local to global to aid readers in implementing urban monitoring techniques at any level Includes theoretical and applied research contributions along with background information on the use of concurrent technologies in the disciplines of urban studies

**Global Urban Monitoring and Assessment through Earth Observation** Qihao Weng, 2014-05-23 Cities and towns are the original producers of many of the global environmental problems related to waste disposal and 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 [Remote Sensing and GIS for Site Characterization](#) Vernon Singhroy, Douglas Daniel Nebert, Arnold Ivan Johnson, 1996 Contains selected papers from the title international symposium held in January 1994 in San Francisco CA Sections on remote sensing applications geographic information system GIS site characterization and standards detail the latest findings in areas such as digital

elevation data Landsat T Regional Satellite Oceanography Serge Victorov,2003-09-02 This work addresses the whole range of problems relating to the application of satellite technology to studies of regional seas and sea phenomena the Gulf Stream the Kuroshia Current and coastal zones It argues that to emphasize global applications is to fail to take into account fundamental idiosyncracies specific to the regional perspective In addition it describes implementation techniques data gathering in situ data assurance algorithms for parameter retrieval data storage and data output The book contains satellite imagery and incorporates case studies from areas such as the Baltic and the Black Sea **Environmental Information Systems in Industry and Public Administration** Claus Rautenstrauch,Susanne Patig,2001 Environmental Information Systems in Industry and Public Administration provides an overview of worldwide research and development on Environmental Information Systems ENVIS This book is the only topical documentation of the highly innovative approach of information systems for environmental protection Issues are covered from the global and multinational level to industrial solutions for enterprises **Geoinformatics** ,2006 Ecology, Environment & Conservation ,2007 Vietnam Economic News ,2005 **Intercarto** ,1994 *GIS World* ,1996 *Geoinformatics 2006* Deren Li,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature International Research Centers Directory ,2009 **Graduate Programs in the Physical Sciences, Mathematics, Agricultural Sciences, the Environment, and Natural Resources 2009** Peterson's,2007-11 The six volumes of Peterson's Annual Guides to Graduate Study the only annually updated reference work of its kind provide wide ranging information on the graduate and professional programs offered by accredited colleges and universities in the United States and U S territories and those in Canada Mexico Europe and Africa that are accredited by U S accrediting bodies Books 2 through 6 are divided into sections that contain one or more directories devoted to individual programs in a particular field Book 4 contains more than 3 800 programs of study in 56 disciplines of the physical sciences mathematics agricultural sciences the environment and natural resources **The Hindu Kush Himalayas** ,1999 *Geoinformatics 2006* Liangpei Zhang,Xiaoling Chen,2006 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **The Hydrographic Journal** ,2004

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