

Environmental Science

Joseph L. Awange

# Environmental Monitoring using GNSS

Global Navigation Satellite Systems

 Springer

# Environmental Monitoring Using Gns Global Navigation Satellite Systems Environmental Science And Engineering

**Basudeb Bhatta**



## **Environmental Monitoring Using Gns Global Navigation Satellite Systems Environmental Science And Engineering:**

Environmental Monitoring using GNSS Joseph L. Awange, 2012-05-15 Global Navigation Satellite Systems GNSS are revolutionizing the world in a way their original developers never envisaged From being military war tools GNSS satellites are rapidly becoming peace tools that play a potentially critical role in enabling changing environmental phenomenon that do not permit direct measurements to be remotely observed via their all weather highly accurate and continuously updatable positional time series This is evident for example in their use in emerging environmental monitoring methods that are considered in this book These include GPS based radio telemetry which is enhancing ecological and conservation monitoring by more accurately mapping animal movements their behaviours and their impact on the environment GNSS meteorology which is contributing to weather and climate change studies GNSS remote sensing which for example allows the rapid monitoring of changes in fresh water resources and cryosphere Geosensor network techniques which are earning a crucial role in disaster response management Epidemiology for improved efficiency in tracking and studying the spread of infectious diseases and climate change effects on vector borne diseases and Economics to provide data for the econometric modelling of casual impact of policies In Environmental Impact Assessments EIA Strategic Environmental Assessments SEA and Sustainability Assessments SA GNSS together with other spaced based remote sensing techniques are emerging not only as modern tools that connect the developers to the community but also provide information that support Multi Criteria Analysis MCA methods which inform decision making and policy formulations By bringing the two fields of geodesy the parent of GNSS technology and environmental studies potential users of this technology this book presents the concepts of GNSS in a simplified way that can on the one hand be understood and utilised by environmentalists while on the other outlines its potential applications to environmental monitoring and management for those engaged more with its technology which hopefully will further energise the already innovative research that is being carried out Lastly this book is most relevant to all the professionals whose work is related to the environment such as hydrologists meteorologists epidemiologists economist and engineers to name just a few A comprehensive yet candid and compelling presentation of Global Navigation Satellite Systems and its application to environmental monitoring and a host of other socio economic activities This is an essential and new ground breaking reading for all professional practitioners and even academics seeking to study and become involved in using Global Navigation Satellite Systems in diverse fields ranging from environmental monitoring to economic activities such as monitoring weather and climate in order to design crop failure insurance Nathaniel O Agola Professor of Business and Financial Economics Ritsumeikan University Japan

**GNSS Environmental Sensing** Joseph Awange, 2017-09-04 This book is the second edition of Environmental Monitoring using GNSS and highlights the latest developments in global navigation satellite systems GNSS It features a completely new title and additional chapters that present emerging

challenges to environmental monitoring climate variability change and food insecurity Since the publication of the first edition much has changed in both the development and applications of GNSS a satellite microwave remote sensing technique It is the first tool to span all four dimensions of relevance to humans position navigation timing and the environment and it has widely been used for positioning both by military and civilians navigation and timing Its increasing use is leading to a new era of remote sensing that is now revolutionizing the art of monitoring our environment in ways never imagined before On the one hand nearly all GNSS satellites Global Positioning System GPS Global Navigation Satellite System GLONASS Galileo and Beidou have become operational thereby providing high precision continuous all weather and near real time remote sensing multi signals beneficial to environmental monitoring On the other hand the emerging challenges of precisely monitoring climate change and the demand for the production of sufficient food for ever increasing populations are pushing traditional monitoring methods to their limits In this regard refracted GNSS signals i e occulted GNSS signals or GNSS meteorology are now emerging as sensors of climate variability while the reflected signals GNSS reflectometry or GNSS R are increasingly finding applications in determining e g soil moisture content ice and snow thickness ocean heights and wind speed and direction among others Furthermore the increasing recognition and application of GNSS supported unmanned aircraft vehicles UAV drones in agriculture e g through the determination of water holding capacity of soil highlights the new challenges facing GNSS As such this new edition three new chapters address GNSS reflectometry and applications GNSS sensing of climate variability and the applications in UAV drones Moreover it explores the application of GNSS to support integrated coastal zone management

**Digital Terrain Analysis, Third Edition** Igor Florinsky, 2025-01-10 Digital Terrain Analysis Third Edition synthesizes knowledge on methods and applications of digital terrain analysis and geomorphometry in the context of multi scale problems in soil science geology and polar research Divided into four parts the book examines the main concepts principles and methods of digital terrain modeling methods for analysis modeling and mapping of spatial distribution of soil properties techniques for recognition analysis and interpretation of topographically manifested geological features and finally polar research This new release provides a theoretical and methodological basis for understanding and applying geographical modeling techniques Presents an integrated and unified view of digital terrain analysis in both soil science and geology Includes a rigorous description of the mathematical principles of digital terrain analysis Provides both a theoretical and methodological basis for understanding and applying geographical modeling Contain a new section on Digital Terrain Modeling in polar research as well as updated information methods and figures from previous editions

*Position, Navigation, and Timing Technologies in the 21st Century* Y. Jade Morton, Frank van Diggelen, James J. Spilker, Jr., Bradford W. Parkinson, Sherman Lo, Grace Gao, 2020-12-17 Covers the latest developments in PNT technologies including integrated satellite navigation sensor systems and civil applications Featuring sixty four chapters that are divided into six parts this two volume work provides comprehensive coverage of the state of the art in satellite based position navigation and timing PNT

technologies and civilian applications It also examines alternative navigation technologies based on other signals of opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications Volume 1 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications contains three parts and focuses on the satellite navigation systems technologies and engineering and scientific applications It starts with a historical perspective of GPS development and other related PNT development Current global and regional navigation satellite systems GNSS and RNSS their inter operability signal quality monitoring satellite orbit and time synchronization and ground and satellite based augmentation systems are examined Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath rich urban environment in handling spoofing and interference and in ensuring PNT integrity are addressed A section on satellite navigation for engineering and scientific applications finishes off the volume Volume 2 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications It looks at PNT using various radio signals of opportunity atomic clock optical laser magnetic field celestial MEMS and inertial sensors as well as the concept of navigation from Low Earth Orbiting LEO satellites GNSS INS integration neuroscience of navigation and animal navigation are also covered The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping precision agriculture wearable systems automated driving train control commercial unmanned aircraft systems aviation and navigation in the unique Arctic environment In addition this text Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors techniques and applications Illustrates interconnecting relationships between various types of technologies in order to assure more protected tough and accurate PNT Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications will appeal to all industry professionals researchers and academics involved with the science engineering and applications of position navigation and timing technologies pnt21book com

**Smart machines, Remote Sensing, Precision Farming, Processes, Mechatronic, Materials and Policies for Safety and Health Aspects** Andrea Colantoni, Danilo Monarca, Massimo Cecchini, Vincenzo Laurendi, Mauro Villarini, Filippo Gambella, 2018-05-18 This book is a printed edition of the Special Issue Smart machines Remote Sensing Precision Farming Processes Mechatronic Materials and Policies for Safety and Health Aspects that was published in Agriculture **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.

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     The Nile Waters Joseph Awange,2021-02-19 This book is useful to those in water resources management and policy formulations hydrologists environmentalists engineers and researchers Exploiting advanced statistical techniques and the latest state of the art multi mission satellites surface models and reanalysis products this book provides the first comprehensive weighing of the changes in the Nile River Basin s NRB 3 400 000 km<sup>2</sup> stored waters compartments surface soil moisture and groundwater and their association to climate variability change and anthropogenic impacts on the one hand On the other hand it argues on the need for equitable use of the NRB s waters by all 11 countries within its basin and doing away with obsolete Nile treaties that were signed by Britain Egypt and Sudan which prohibit the use of the Nile by 8 upstream countries With Ethiopia s construction of Africa s largest dam GERD Grand Ethiopian Renaissance Dam along the Blue Nile which is expected to take several years to fill the Nile is back on the news Combined with Uganda s Nalubaale Kiira and Bujagali dams on the White Nile these human induced impacts i e damming coupled with those of climate variability change are expected to exacerbate tension with the low stream countries Egypt and Sudan fearing the cut in the Nile s total volume Furthermore the Nile river arguably the world s longest river 6800 km impacts on the livelihood of over 300 million people of 11 countries within its basin This population is expected to double in the next twenty five years thereby putting extreme pressure on its water resources An in depth analysis of changes in the Nile s stored waters therefore is essential to inform its management and sustainable equitable use Owing to its sheer size however obtaining in situ data from boots on the ground is practically impossible paving way to the space based weighing of the Nile River Basin using a suite of high spatio temporal remotely sensed and reanalysis products as well as those of hydrological models Arguably the Nile River is the most unique river in the world It spans extremes of rainfall from being measured by meters to being measured by centimeters from the humid tropics to the driest of deserts Yet thirsty people live throughout this basin and therefore the demands on its water resources are uneven Knowing the water amounts throughout the entire Nile Basin is a critical step for governments and international treaties to avoid the Tragedy of the Commons Africa can embrace this future through the leadership of Prof Awange and others like him who have devoted their careers to Africa s waters Doug Alsdorf Ph D Professor of Geophysics at the Ohio State University USA     **Remote Sensing and GIS** Basudeb Bhatta,2008 Remote Sensing and

GIS is specifically designed to serve as a textbook for undergraduate students of geoinformatics, geomatics engineering, survey engineering, civil engineering, geotechnical engineering, and environmental engineering. It would also prove useful to students of geography, geophysics, earth resources management, environmental management, and disaster management. It provides a thorough understanding of the basic principles and techniques of remote sensing, geographic information systems, and their applications.

Reverse Acronyms, Initialisms & Abbreviations Dictionary. Mary Rose Bonk, Regie Carlton, Gale Research Inc, 1998

*Catalog* University of Colorado Boulder, 2009

**International Aerospace Abstracts**, 1999

**Proceedings of the Institution of Civil Engineers**, 2009      Reverse Acronyms, Initialisms, & Abbreviations Dictionary, 1983      **Aeronautical Engineering**, 1993 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA      Journal of the National Institute of Information and Communications Technology, 2010      □□□□□□□□□□□□□□□□□□□□ ,1997      **Transactions of the ASAE.**  
American Society of Agricultural Engineers, 1996      **Spring Meeting** American Geophysical Union. Meeting, 2001

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

## **Environmental Monitoring Using Gnss Global Navigation Satellite Systems Environmental Science And Engineering** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Environmental Monitoring Using Gnss Global Navigation Satellite Systems Environmental Science And Engineering**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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