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Highways

Surveying with Construction Applications

Pearson Higher Ed This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. **Known for its state-of-the-art coverage and clear, concise approach, Surveying with Construction Applications, Seventh Edition covers the latest advances and foundational principles of surveying. Emphasizing instrumentation technology, field data capture, and data-processing techniques, this text highlights real-world applications of surveying to the construction and engineering fields. Ideal as a reference in the field, additional complexities in electronic distance measurement and the order of presentation of surveying topics have been revised in this edition. All state Departments of Transportation (DOTs) in the U.S. and the provincial Transportation/Highways Departments in Canada conduct extensive training sessions for their large staffs. This book covers topics that are taught in these training sessions, in addition to all of the introductory topics needed for survey training.**

File Stations

Electronic Distance Measurement

An Introduction

Springer Science & Business Media The book has evolved from the author's continuing teaching of the subject and from two editions of a text of the same title. The first edition was published in 1978 by the School of Surveying, University of New South Wales, Sydney, Australia. Like its predecessors, this totally revised third edition is designed to make the subject matter more readily available to students proceeding to degrees in Surveying and related fields. At the same time, it is a comprehensive reference book for all surveyors as well as for other professionals and scientists who use electronic distance measurement as a measuring tool. Great emphasis is placed on the understanding of measurement principles and on proper reduction and calibration procedures. It comprises an extensive collection of essential formulae, useful tables and numerous literature references. After a review of the history of EDM instruments in Chapter 1, some fundamental laws of physics and units relevant to EDM are revised in Chapter 2. Chapter 3 discusses the principles and applications of the pulse method, the phase difference method, the Doppler technique and includes an expanded section on interferometers. The basic working principles of electro-optical and microwave distance meters are presented in Chapter 4, with special emphasis on modulation/demodulation techniques and phase measurement systems. Important properties of infrared emitting and lasing diodes are discussed.

EDM Calibration Handbook

Remote Sensing and Image Interpretation

Wiley From recent developments in digital image processing to the next generation of satellite systems, this book provides a comprehensive introduction to the field of remote sensing and image interpretation. This book is discipline neutral, so readers in any field of study can gain a clear understanding of these systems and their virtually unlimited applications. * The authors underscore close interactions among the related areas of remote sensing, GIS, GPS, digital image processing, and environmental modeling. * Appendices include material on sources of remote sensing data and information, remote sensing periodicals, online glossaries, and online tutorials.

3D Recording and Interpretation for Maritime Archaeology

This open access peer-reviewed volume was inspired by the UNESCO UNITWIN Network for Underwater Archaeology International Workshop held at Flinders University, Adelaide, Australia in November 2016. Content is based on, but not limited to, the work presented at the workshop which was dedicated to 3D recording and interpretation for maritime archaeology. The volume consists of contributions from leading international experts as well as up-and-coming early career researchers from around the globe. The content of the book includes recording and analysis of maritime archaeology through emerging technologies, including both practical and theoretical contributions. Topics include photogrammetric recording, laser scanning, marine geophysical 3D survey techniques, virtual reality, 3D modelling and reconstruction, data integration and Geographic Information Systems. The principal incentive for this publication is the ongoing rapid shift in the methodologies of maritime archaeology within recent years and a marked increase in the use of 3D and digital approaches. This convergence of digital technologies such as underwater photography and photogrammetry, 3D sonar, 3D virtual reality, and 3D printing has highlighted a pressing need for these new methodologies to be considered together, both in terms of defining the state-of-the-art and for consideration of future directions. As a scholarly publication, the audience for the book includes students and researchers, as well as professionals working in various aspects of archaeology, heritage management, education, museums, and public policy. It will be of special interest to those working in the field of coastal cultural resource management and underwater archaeology but will also be of broader interest to anyone interested in archaeology and to those in other disciplines who are now engaging with 3D recording and visualization. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Ecosystem Services Derived from Wetland Conservation Practices in the United States Prairie Pothole Region with an Emphasis on the U.S. Department of Agriculture Conservation Reserve and Wetlands Reserve Programs

Geological Survey (USGS)

Image and Signal Processing

9th International Conference, ICISP 2020, Marrakesh, Morocco, June 4-6, 2020,

Proceedings

[Springer Nature](#) This volume constitutes the refereed proceedings of the 9th International Conference on Image and Signal Processing, ICISP 2020, which was due to be held in Marrakesh, Morocco, in June 2020. The conference was cancelled due to the COVID-19 pandemic. The 40 revised full papers were carefully reviewed and selected from 84 submissions. The contributions presented in this volume were organized in the following topical sections: digital cultural heritage & color and spectral imaging; data and image processing for precision agriculture; machine learning application and innovation; biomedical imaging; deep learning and applications; pattern recognition; segmentation and retrieval; mathematical imaging & signal processing.

Theory and practice on terrestrial laser scanning : training material based on practical applications ; [prepared by the learning tools for advanced three-dimensional surveying in risk awareness project (3DRiskMapping)]

Advances in Remote Sensing and Geo Informatics Applications

Proceedings of the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018

[Springer](#) This edited volume is based on the best papers accepted for presentation during the 1st Springer Conference of the Arabian Journal of Geosciences (CAJG-1), Tunisia 2018. The book compiles a wide range of topics addressing various issues by experienced researchers mainly from research institutes in the Mediterranean, MENA region, North America and Asia. Remote sensing observations can close gaps in information scarcity by complementing ground-based sparse data. Spatial, spectral, temporal and radiometric characteristics of satellites sensors are most suitable for features identification. The local to global nature and broad spatial scale of remote sensing with the wide range of spectral coverage are essential characteristics, which make satellites an ideal platform for mapping, observation, monitoring, assessing and providing necessary mitigation measures and control for different related Earth's systems processes. Main topics in this book include: Geo-informatics Applications, Land Use / Land Cover Mapping and Change Detection, Emerging Remote Sensing Applications, Rock Formations / Soil Lithology Mapping, Vegetation Mapping Impact and Assessment, Natural Hazards Mapping and Assessment, Ground Water Mapping and Assessment, Coastal Management of Marine Environment and Atmospheric Sensing.

Surveying for Engineers

Across Space and Time

papers from the 41st conference on computer applications and quantitative methods in archaeology, Perth, 25-28 March 2013

Amsterdam University Press This volume presents a selection of the best papers presented at the forty-first annual Conference on Computer Applications and Quantitative Methods in Archaeology. The theme for the conference was "Across Space and Time", and the papers explore a multitude of topics related to that concept, including databases, the semantic Web, geographical information systems, data collection and management, and more.

Agricultural Drones

A Peaceful Pursuit

CRC Press Agricultural drones are expected to revolutionize the way we conduct agronomic procedures and maintain natural vegetation on earth. This book explores the increasing importance of the role of aerial robots in managing agricultural farms and natural resources. *Agricultural Drones: A Peaceful Pursuit* provides a wealth of information on drone usage in agriculture. The book discusses the advanced sensors and imaging capabilities of drones that give farmers new ways to increase yields and reduce crop damage. An introductory chapter provides historical data, with details about various models of drones as well as the most recent and popular agricultural drones in usage. The book goes on to look at such topics as the use of drones for soil fertility, production agronomy, irrigation, weed control, pest and disease control, grain yield forecasting, and economic advantages from drone use. This timely and useful volume will be a valuable resource for faculty, agricultural extension officers, and farmers and farm consultancy agencies. This book would also serve as an excellent textbook for students in agriculture, engineering, geography, etc. Key features: • outlines the advantages of using drones in agriculture, such as for the management of soil fertility, the study of natural resources and vegetation, the maintenance of adequate irrigation, and the control of weeds and pests • covers the economic advantages of using drones in agriculture • examines the regulatory aspects of agricultural drones • provides actual examples of drone usage in agriculture

Biomimetic and Biohybrid Systems

Second International Conference, Living Machines 2013, London, UK, July 29 -- August 2, 2013, Proceedings

Springer This book constitutes the refereed proceedings of the second International Conference on Biomimetic and Biohybrid Systems, Living Machines 2013, held in London, UK, in July/August 2013. The 65 revised full papers presented were carefully reviewed and selected from various submissions. The papers are targeted at the intersection of research on novel live-like technologies inspired by scientific investigation of biological systems, biomimetics, and research that seeks to interface biological and artificial systems to create biohybrid systems

Introduction to Mineral Exploration

Wiley-Blackwell This new, up dated edition of *Introduction to Mineral Exploration* provides a comprehensive overview of all aspects of mineral exploration. Covers not only the nature of mineral exploration but also considers other factors essential to successful exploration, from target evaluation to feasibility studies for extraction and production. Includes six detailed case studies, selected for the range of different problems and considerations they present to the mineral explorationist. Features new chapters on handling mineral

exploration data and a new case study on the exploration for diamonds. Essential reading for upper level undergraduates studying ore geology, mineral exploration, mining geology, coal exploration, and industrial minerals, as well as professional geologists. Artwork from the book is available to instructors online at www.blackwellpublishing.com/moon.

Subsurface Sensing

John Wiley & Sons This book provides readers with a solid understanding of the capabilities and limitations of the techniques used for buried object detection. Presenting theory along with applications and the existing technology, it covers the most recent developments in hardware and software technologies of sensor systems with a focus on primary sensors such as Ground Penetrating Radar (GPR) and auxiliary sensors such as Nuclear Quadruple Resonance (NQR). It is essential reading for students, practitioners, specialists, and academicians involved in the design and implementation of buried object detection sensors.

UAV Photogrammetry and Remote Sensing

MDPI The concept of remote sensing as a way of capturing information from an object without making contact with it has, until recently, been exclusively focused on the use of Earth observation satellites. The emergence of unmanned aerial vehicles (UAV) with Global Navigation Satellite System (GNSS) controlled navigation and sensor-carrying capabilities has increased the number of publications related to new remote sensing from much closer distances. Previous knowledge about the behavior of the Earth's surface under the incidence different wavelengths of energy has been successfully applied to a large amount of data recorded from UAVs, thereby increasing the spatial and temporal resolution of the products obtained. More specifically, the ability of UAVs to be positioned in the air at pre-programmed coordinate points; to track flight paths; and in any case, to record the coordinates of the sensor position at the time of the shot and at the pitch, yaw, and roll angles have opened an interesting field of applications for low-altitude aerial photogrammetry, known as UAV photogrammetry. In addition, photogrammetric data processing has been improved thanks to the combination of new algorithms, e.g., structure from motion (SfM), which solves the collinearity equations without the need for any control point, producing a cloud of points referenced to an arbitrary coordinate system and a full camera calibration, and the multi-view stereopsis (MVS) algorithm, which applies an expanding procedure of sparse set of matched keypoints in order to obtain a dense point cloud. The set of technical advances described above allows for geometric modeling of terrain surfaces with high accuracy, minimizing the need for topographic campaigns for georeferencing of such products. This Special Issue aims to compile some applications realized thanks to the synergies established between new remote sensing from close distances and UAV photogrammetry.

Hard Drive Bible

THE HARD DRIVE BIBLE, EIGHTH EDITION is the definitive reference book for anyone who deals with personal computer data storage devices of any kind. This comprehensive work covers installations, drive parameters, & set up information for thousands of Hard Disk, Optical, DAT Tape, & CD-ROM Drives. A concise history of data storage devices is followed by the most expansive compilation of technical data offered to the public today. Specifications, drawings, charts & photos cover jumper settings, cabling, partitioning & formatting of disk drives. SCSI commands & protocols are addressed, in addition to chapters revealing the intricacies of different interface standards & common troubleshooting procedures. **THE HARD DRIVE BIBLE** contains the answers to anyone's questions concerning the purchase, installation & use of modern digital data storage devices. The difficulties caused by compatibility mismatches are addressed & solutions are offered. Also featured are controller card information & performance ratings, as well as valuable tips on increasing drive performance & reliability through software. **THE HARD DRIVE BIBLE** is published by Corporate Systems Center, one of the leaders in the digital storage device field. A CD-ROM included with the book carries CSC's drive performance test software & formatting tools, as well as thousands of drive parameters, specifications, & technical drawings. To order contact: Corporate Systems Center, 1294 Hammerwood Avenue, Sunnyvale, CA 94089; 408-743-8787.

Tropical Forest Census Plots

Methods and Results from Barro Colorado Island, Panama and a Comparison with Other Plots

[Springer Science & Business Media](#) **By way of a summary of all the data collected by the mapping teams, I will review what is entered on each of the data sheets. The map sheet was already described in some detail (Fig. 2.2.1A), and includes a circle or a point for the location of each tree and the tree's tag number (the last three or four digits) written next to it. The range of tag numbers used in the quadrat should be written at the top of the sheet. The main data sheet is where most other information about each individual is recorded (Fig. 2.2.1B). As for all sheets, the quadrat number, the first date a quadrat is censused, and the mappers' names are recorded at the top. For each plant, there are blanks for the following information: subquadrat number, tag number, species name, dbh, codes, and problems. Subquadrat number and tag number are straight forward. Size in millimeters is entered in the dbh column, except for multiple stemmed plants or big trees, which get a blank dbh on the main data sheet. Species identification will be handled by separate taxonomy teams (chapter 2.3), but map pers should enter a species name if they know it.**

Topographic Laser Ranging and Scanning Principles and Processing

[CRC Press](#) **A systematic, in-depth introduction to theories and principles of Light Detection and Ranging (LiDAR) technology is long overdue, as it is the most important geospatial data acquisition technology to be introduced in recent years. An advanced discussion, this text fills the void. Professionals in fields ranging from geology, geography and geoinformatics to physics, transportation, and law enforcement will benefit from this comprehensive discussion of topographic LiDAR principles, systems, data acquisition, and data processing techniques. The book covers ranging and scanning fundamentals, and broad, contemporary analysis of airborne LiDAR systems, as well as those situated on land and in space. The authors present data collection at the signal level in terms of waveforms and their properties; at the system level with regard to calibration and georeferencing; and at the data level to discuss error budget, quality control, and data organization. They devote the bulk of the book to LiDAR data processing and information extraction and elaborate on recent developments in building extraction and reconstruction, highlighting quality and performance evaluations. There is also extensive discussion of the state-of-the-art technological developments used in: filtering algorithms for digital terrain model generation; strip adjustment of data for registration; co-registration of LiDAR data with imagery; forestry inventory; and surveying. Readers get insight into why LiDAR is the effective tool of choice to collect massive volumes of explicit 3-D data with unprecedented accuracy and simplicity. Compiled by leading experts talking about much of their own pioneering work, this book will give researchers, professionals, and senior students novel ideas to supplement their own experience and practices.**

Signals in the Soil

Developments in Internet of Underground Things

[Springer](#) **This book provides an in-depth coverage of the most recent developments in the field of wireless underground communications, from both theoretical and practical perspectives. The authors identify technical challenges and discuss recent results related to improvements in wireless underground communications and soil sensing in Internet of Underground Things (IOUT). The book covers both existing network technologies and those currently in development in three major areas of SitS: wireless underground communications, subsurface sensing, and antennas in the soil medium. The authors explore novel applications of Internet of Underground Things in digital agriculture and autonomous irrigation management domains. The book is relevant to wireless researchers, academics, students, and decision agriculture professionals. The contents of the book are arranged in a comprehensive and easily accessible format. Focuses on fundamental issues of wireless underground communication and subsurface sensing; Includes advanced treatment of IOUT custom applications of variable-rate technologies in the field of decision agriculture, and covers protocol design and wireless underground channel modeling;**

Provides a detailed set of path loss, antenna, and wireless underground channel measurements in various novel Signals in the Soil (SitS) testbed settings.

The Rock-Art Landscapes of Rombalds Moor, West Yorkshire

Standing on Holy Ground

[Archaeopress Publishing Ltd](#) This landscape study of the rock-art of Rombalds Moor, West Yorkshire, considers views of and from the sites. In an attempt to understand the rock-art landscapes of prehistory the study considered the environment of the moor and its archaeology along with the ethnography from the whole circumpolar region.

Point Cloud Data Fusion for Enhancing 2D Urban Flood Modelling

[CRC Press](#) Modelling urban flood dynamics requires proper handling of a number of complex urban features. Although high-resolution topographic data can nowadays be obtained from aerial LiDAR surveys, such top-view LiDAR data still have difficulties to represent some key components of urban features. Incorrectly representing features like underpasses through buildings or apparent blockage of flow by sky trains may lead to misrepresentation of actual flood propagation, which could easily result in inadequate flood-protection measures. Hence proper handling of urban features plays an important role in enhancing urban flood modelling. This research explores present-day capabilities of using computer-based environments to merge side-view Structure-from-Motion data acquisition with top-view LiDAR data to create a novel multi-source views (MSV) topographic representation for enhancing 2D model schematizations. A new MSV topographic data environment was explored for the city of Delft and compared with the conventional top-view LiDAR approach. Based on the experience gained, the effects of different topographic descriptions were explored for 2D urban flood models of (i) Kuala Lumpur, Malaysia for the 2003 flood event; and (ii) Ayutthaya, Thailand for the 2011 flood event. It was observed that adopting the new MSV data as the basis for describing the urban topography, the numerical simulations provide a more realistic representation of complex urban flood dynamics, thus enhancing conventional approaches and revealing specific features like flood watermarks identification and helping to develop improved flood-protection measures.

Lithofacies of the Salt Wash Member of the Morrison Formation

From Space to Place

2nd International Conference on Remote Sensing in Archaeology : Proceedings of the 2nd International Workshop, CNR, Rome, Italy, December 4-7, 2006

[British Archaeological Reports Limited](#) This conference at Rome in December 2006, promoted the use of integrated methodologies in remote sensing archaeology so as to help in the creation of new and sustainable policies in the monitoring, interpretation, fruition and communication of the cultural heritage. Including 67 papers from 10 sessions.

Safety of Laser Products

Surveying: Theory and Practice

[McGraw-Hill Science Engineering](#) This up-to-the-minute edition provides the latest in Global Positioning Systems (GPS), Digital Mapping, Spatial Information Systems, and Geographic Information Systems (GIS), as well as comprehensive coverage of the surveying techniques, operations, and information professionals of every stripe need on the job.

A Personal History of Ulysses S. Grant

And Sketch of Schuyler Colfax

Handbook of Optical Dimensional Metrology

[Taylor & Francis](#) Due to their speed, data density, and versatility, optical metrology tools play important roles in today's high-speed industrial manufacturing applications. **Handbook of Optical Dimensional Metrology** provides useful background information and practical examples to help readers understand and effectively use state-of-the-art optical metrology methods. The book first builds a foundation for evaluating optical measurement methods. It explores the many terms of optical metrology and compares it to other forms of metrology, such as mechanical gaging, highlighting the limitations and errors associated with each mode of measurement at a general level. This comparison is particularly helpful to current industry users who operate the most widely applied mechanical tools. The book then focuses on each application area of measurement, working down from large area to medium-sized to submicron measurements. It describes the measurement of large objects on the scale of buildings, the measurement of durable manufactured goods such as aircraft engines and appliances, and the measurement of fine features on the micron and nanometer scales. In each area, the book covers fast, coarse measures as well as the finest measurements possible. Best practices and practical examples for each technology aid readers in effectively using the methods. Requiring no prior expertise in optical dimensional metrology, this handbook helps engineers and quality specialists understand the capabilities and limitations of optical metrology methods. It also shows them how to successfully apply optical metrology to a vast array of current engineering and scientific problems.

Photogrammetric Image Analysis

ISPRS Conference, PIA 2011, Munich, Germany, October 5-7, 2011. Proceedings

[Springer Science & Business Media](#) This book constitutes the refereed proceedings of the ISPRS Conference on Photogrammetric Image Analysis, held in Munich, Germany, in October 2011. The 25 revised full papers presented were carefully reviewed and selected from 54 submissions. The papers are organized in topical sections on orientation, matching, object detection, 3D reconstruction and DEM, classification, people and tracking, as well as image processing.

Paleoecology, Biostratigraphy, Paleoceanography and Taxonomy of Agglutinated Foraminifera

[Springer Science & Business Media](#) Agglutinated foraminifera are among the most widely distributed and abundant groups of marine meiofauna in some environments (e. g. marshes, deep-sea). They are tolerant of environmental extremes, tending to live where the evolutionarily more advanced calcareous foraminifera cannot survive. However, largely because of historical reasons, the amount of scientific effort invested in this group has been small in comparison to studies of other marine organisms. The NATO Advanced Studies Institute conference on the paleoecology, biostratigraphy, paleoceanography and taxonomy of agglutinated foraminifera in Tübingen September 17-29, 1989, was a direct outgrowth of two

previous workshops on agglutinated foraminifers held in Amsterdam in September 1981 (IW AF I) and in Vienna in June 1986 (IW AF 11). As such, the Tübingen conference constitutes the Third International Workshop on Agglutinated Foraminifera (IW AF III) and was organised to provide a platform for synthesizing the current state of knowledge on this group of organisms, and to strengthen interactions between basic research and applied micropaleontology. One of the main underlying themes of the conference was to identify topics in the paleoecology, biostratigraphy, paleoceanography and taxonomy of agglutinated foraminifera which are in urgent need of further research. About 80 scientists and students from 5 continents participated in the Tübingen conference, which is one measure of the growth in interest in agglutinated foraminifers over the past decade. During four days of technical sessions, scientific results were communicated in the form of 34 oral presentations and 15 poster displays.

The Resident Course

Integrated Sensor Orientation

Theory, Algorithms, and Systems

Florida Archaeology

D-Site. Drones. Systems of Information on Cultural Heritage. For a Spatial and Social Investigation

Breast Tumours

WHO Classification of Tumours ****When not purchasing directly from the official sales agents of the WHO, especially at online bookshops, please note that there have been issues with counterfeited copies. Buy only from known sellers and if there are quality issues, please contact the seller for a refund.***** Breast Tumours is the second volume in the 5th edition of the WHO series on the classification of human tumors. This series (also known as the WHO Blue Books) is regarded as the gold standard for the diagnosis of tumors and comprises a unique synthesis of histopathological diagnosis with digital and molecular pathology. These authoritative and concise reference books provide indispensable international standards for anyone involved in the care of patients with cancer or in cancer research, underpinning individual patient treatment as well as research into all aspects of cancer causation, prevention, therapy, and education. This book will be of special interest to pathologists, oncologists, surgeons and epidemiologists who manage or research breast tumors. Sections are included on all recognized neoplasms of the breast including the nipple and areola. Since the previous edition there have been changes based on recent molecular and genetic information, with impact on clinical practice.

Integration of Civil Unmanned Aircraft Systems (UAS) in the National Airspace System (NAS) Roadmap

CreateSpace Since the early 1990s, unmanned aircraft systems (UAS) have operated on a limited basis in the National Airspace System (NAS). Until recently, UAS mainly supported public operations, such as military and border security operations. The list of potential uses is now rapidly expanding to encompass a broad range of other activities, including aerial photography, surveying land and crops, communications and broadcast, monitoring forest fires and environmental conditions, and protecting critical infrastructures. UAS provide

new ways for commercial enterprises (civil operations) and public operators to enhance some of our nation's aviation operations through increased operational efficiency and decreased costs, while maintaining the safety of the NAS.

Bob and Tom Get a Dog

"Siblings Bob and Tom get a dog with spots. This A-level story uses decodable text to raise confidence in early readers. The book uses a combination of sight words and short-vowel words in repetition to build recognition. Original illustrations help guide readers through the text."--

Functional Proteomics

Methods and Protocols

Humana Press As the emerging field of proteomics continues to expand at an extremely rapid rate, the relative quantification of proteins, targeted by their function, becomes its greatest challenge. Complex analytical strategies have been designed that allow comparative analysis of large proteomes, as well as in depth detection of the core proteome or the interaction network of a given protein of interest. In *Functional Proteomics: Methods and Protocols*, expert researchers describe the latest protocols being developed to address the problems encountered in high-throughput proteomics projects, with emphasis on the factors governing the technical choices for given applications. The case studies within the volume focus on the following three crucial aspects of the experimental design: 1) the strategy used for the selection, purification and preparation of the sample to be analyzed by mass spectrometry, 2) the type of mass spectrometer used and the type of data to be obtained from it, and 3) the method used for the interpretation of the mass spectrometry data and the search engine used for the identification of the proteins in the different types of sequence data banks available. As a part of the highly successful *Methods in Molecular Biology™* series, the chapters compile step-by-step, readily reproducible laboratory protocols, lists of the necessary materials and reagents, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, *Functional Proteomics: Methods and Protocols* is an ideal resource for all scientists pursuing this developing field and its multitudinous data.