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KEY=MANUAL - LAYLAH DAISY

NUMERICAL METHODS IN GEOTECHNICAL ENGINEERING IX

PROCEEDINGS OF THE 9TH EUROPEAN CONFERENCE ON NUMERICAL METHODS IN GEOTECHNICAL ENGINEERING (NUMGE 2018), JUNE 25-27, 2018, PORTO, PORTUGAL

CRC Press **Numerical Methods in Geotechnical Engineering IX** contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE2018, Porto, Portugal, 25–27 June 2018). The papers cover a wide range of topics in the field of computational geotechnics, providing an overview of recent developments on scientific achievements, innovations and engineering applications related to or employing numerical methods. They deal with subjects from emerging research to engineering practice, and are grouped under the following themes: Constitutive modelling and numerical implementation Finite element, discrete element and other numerical methods. Coupling of diverse methods Reliability and probability analysis Large deformation - large strain analysis Artificial intelligence and neural networks Ground flow, thermal and coupled analysis Earthquake engineering, soil dynamics and soil-structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns (and pipelines) Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences, (1986 Stuttgart, Germany; 1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy; 2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands), Numerical Methods in Geotechnical Engineering IX updates the state-of-the-art regarding the application of numerical methods in geotechnics, both in a scientific perspective and in what concerns its application for solving practical boundary value problems. The book will be much of interest to engineers, academics and professionals involved or interested in Geotechnical Engineering.

NUMERICAL METHODS IN GEOTECHNICAL ENGINEERING IX, VOLUME 2

PROCEEDINGS OF THE 9TH EUROPEAN CONFERENCE ON NUMERICAL METHODS IN GEOTECHNICAL ENGINEERING (NUMGE 2018), JUNE 25-27, 2018, PORTO, PORTUGAL

CRC Press **Numerical Methods in Geotechnical Engineering IX** contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE2018, Porto, Portugal, 25–27 June 2018). The papers cover a wide range of topics in the field of computational geotechnics, providing an overview of recent developments on scientific achievements, innovations and engineering applications related to or employing numerical methods. They deal with subjects from emerging research to engineering practice, and are grouped under the following themes: Constitutive modelling and numerical implementation Finite element, discrete element and other numerical methods. Coupling of diverse methods Reliability and probability analysis Large deformation - large strain analysis Artificial intelligence and neural networks Ground flow, thermal and coupled analysis Earthquake engineering, soil dynamics and soil-structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns (and pipelines) Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the objectives of previous eight thematic conferences, (1986 Stuttgart, Germany; 1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy; 2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands), Numerical Methods in Geotechnical Engineering IX updates the state-of-the-art regarding the application of numerical methods in geotechnics, both in a scientific perspective and in what concerns its application for solving practical boundary value problems. The book will be much of interest to engineers, academics and professionals involved or interested in Geotechnical Engineering. This is volume 2 of the NUMGE 2018 set.

SURVEYING

PRINCIPLES AND APPLICATIONS

SURVEYING: PRINCIPLES & APPLICATIONS, 9/e is the clearest, easiest to understand, and most useful introduction to surveying as it is practiced today. It brings together expert coverage of surveying principles, remote sensing and other new advances in technological instrumentation, and modern applications for everything from mapping to engineering. Designed for maximum simplicity, it also covers sophisticated topics typically discussed in advanced surveying courses. This edition has been reorganized and streamlined to align tightly with current surveying practice, and to teach more rapidly and efficiently. It adds broader and more valuable coverage of aerial, space and ground imaging, GIS, land surveying, and other key topics. An extensive set of appendices makes it a useful reference for students entering the workplace.

UAV PHOTOGRAMMETRY

TRANSPORTATION SOIL ENGINEERING IN COLD REGIONS, VOLUME 2

PROCEEDINGS OF TRANSOILCOLD 2019

Springer Nature This volume comprises select papers presented during TRANSOILCOLD 2019. It covers the challenges and problems faced by engineers, designers, contractors, and infrastructure owners during planning and building of transport infrastructure in Arctic and cold regions. The contents of this book will be of use to researchers and professional engineers alike.

A SURVEY ON 3D CAMERAS: METROLOGICAL COMPARISON OF TIME-OF-FLIGHT, STRUCTURED-LIGHT AND ACTIVE STEREOSCOPY TECHNOLOGIES

Springer This book is a valuable resource to deeply understand the technology used in 3D cameras. In this book, the authors summarize and compare the specifications of the main 3D cameras available in the mass market. The authors present a deep metrological analysis of the main camera based on the three main technologies: Time-of-Flight, Structured-Light and Active Stereoscopy, and provide qualitative results for any user to understand the underlying technology within 3D camera, as well as practical guidance on how to get the most of them for a given application.

PROCEEDINGS OF EECE 2019

ENERGY, ENVIRONMENTAL AND CONSTRUCTION ENGINEERING

Springer Nature This book gathers the latest advances, innovations, and applications in the field of energy, environmental and construction engineering, as presented by international researchers and engineers at the International Scientific Conference Energy, Environmental and Construction Engineering, held in St. Petersburg, Russia on November 19-20, 2019. It covers highly diverse topics, including BIM; bridges, roads and tunnels; building materials; energy efficient and green buildings; structural mechanics; fluid mechanics; measuring technologies; environmental management; power consumption management; renewable energy; smart cities; and waste management. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

ASSESSING IRON AGE MARSH-FORTS

WITH REFERENCE TO THE STRATIGRAPHY AND PALAEOENVIRONMENT SURROUNDING THE BERTH, NORTH SHROPSHIRE

Archaeopress Publishing Ltd This volume assesses marsh-forts as a separate phenomenon within Iron Age society through an understanding of their landscape context and palaeoenvironmental development. These substantial monuments appear to have been deliberately constructed to control areas of marginal wetland and may have played an important role in the ritual landscape.

DIGITAL TECHNIQUES FOR DOCUMENTING AND PRESERVING CULTURAL HERITAGE

ARC - Collection Development, Cultural Heritage, and Digital Humanities This book presents interdisciplinary approaches to the examination and documentation of material cultural heritage, using non-invasive spatial and spectral optical technologies.

ELEMENTARY SURVEYING

AN INTRODUCTION TO GEOMATICS

Pearson College Division Updated throughout, this highly readable best-seller presents basic concepts and practical material in each of the areas fundamental to modern surveying (geomatics) practice. Its depth and breadth are ideal for self-study. **KEY TOPICS:** Includes new discussions on the impact of the new L2C and L5 signals in GPS and on the effects of solar activity in GNSS surveys. Other new topics include an additional method of computing slope intercepts; an introduction to mobile mapping systems; 90% revised problems; and new Video Solutions. **MARKET:** A useful reference for civil engineers

ADVANCES AND APPLICATIONS IN GEOSPATIAL TECHNOLOGY AND EARTH RESOURCES

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON GEO-SPATIAL TECHNOLOGIES AND EARTH RESOURCES 2017

Springer This book discusses the latest advances and applications in geospatial technologies and earth resources for mine surveying and civil engineering. It also discusses mineral resources management and assesses many techniques such as unmanned aerial vehicles/drones, ground-penetrating radar, geographic information system (GIS) and GIS-based machine learning. The book gathers the proceedings of the International Conference on Geo-Spatial Technologies and Earth Resources (GTER 2017), which was co-organized by the Hanoi University of Mining and Geology (HUMG) and the International Society for Mine Surveying (ISM) and held in Hanoi, Vietnam, on October 5-6, 2017. GTER 2017 is technically co-sponsored by the Vietnam Mining Science and Technology Association (VMST), Vietnam Association of Geodesy, Cartography and Remote Sensing (VGCR), Vietnam National Coal-Mineral Industries Holding Corporation Limited (VINACOMIN), and the Dong Bac Corporation (NECO). The event is intended to bring together experts, researchers, engineers, and policymakers to discuss and exchange their knowledges and experiences with modern geospatial technologies, recent advances in mining and tunneling, and the geological and earth sciences. Given its breadth of coverage, the book will appeal to scientists in the field as well as professionals interested in related technological applications.

NORTH AMERICAN DATUM OF 1983

MAP DATA CONVERSION TABLES. VOL. C. ALASKA

ADJUSTMENT COMPUTATIONS

SPATIAL DATA ANALYSIS

John Wiley & Sons "This companion CD-ROM contains: The software ADJUST, MATRIX, and STATS (This software is windows only), Mathcad and HTML worksheets"--CD-ROM.

ARCHEOLOGIA E CALCOLATORI, 30, 2019

All'Insegna del Giglio Il volume 30 di «Archeologia e Calcolatori» si apre con un inserto speciale, dedicato al trentennale della rivista. Alle introduzioni di F. Djindjian e di P. Moscati, che delineano un quadro dell'informatica archeologica nel suo divenire, seguono gli articoli dei membri del Comitato di Redazione, a testimoniare l'attività di ricerca e di sperimentazione che ha caratterizzato il cammino editoriale della rivista, e il contributo di una giovane laureata dell'Università Bocconi, che ha lavorato a stretto contatto con il team di «Archeologia e Calcolatori». Nella parte centrale sono pubblicati gli articoli proposti annualmente dagli autori. Ne emerge un quadro che rappresenta gli aspetti applicativi più qualificanti dell'informatica archeologica (le banche dati, i GIS, le analisi statistiche, i sistemi multimediali), ma che guarda oggi con sempre maggiore interesse agli strumenti di visualizzazione scientifica e di comunicazione delle conoscenze. Il volume si chiude con gli Atti del XII Workshop ArcheoFOSS (Free, Libre and Open Source Software e Open Format nei processi di ricerca archeologica), un'iniziativa lodevole, nata nel 2006, cui si è più volte dato spazio nelle pagine della rivista.

CONSERVATION AND REHABILITATION PLAN FOR TIGHERMT (KASBAH) TAOURIRT, SOUTHERN MOROCCO

RESEARCH REPORT

ENGINEERING SURVEYING

CRC Press Engineering surveying involves determining the position of natural and man-made features on or beneath the Earth's surface and utilizing these features in the planning, design and construction of works. It is a critical part of any engineering project. Without an accurate understanding of the size, shape and nature of the site the project risks expensive and time-consuming errors or even catastrophic failure. This fully updated sixth edition of Engineering Surveying covers all the basic principles and practice of the fundamentals such as vertical control, distance, angles and position right through to the most modern technologies. It includes: * An introduction to geodesy to facilitate greater understanding of satellite systems * A fully updated chapter on GPS, GLONASS and GALILEO for satellite positioning in surveying * All new chapter on the important subject of rigorous estimation of control coordinates * Detailed material on mass data methods of photogrammetry and laser scanning and the role of inertial technology in them With many worked examples and illustrations of tools and techniques, it suits students and professionals alike involved in surveying, civil, structural and mining engineering, and related areas such as geography and mapping.

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 of 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.

SURVEYING

Walter de Gruyter

TOF RANGE-IMAGING CAMERAS

Springer Science & Business Media Today the cost of solid-state two-dimensional imagers has dramatically dropped, introducing low cost systems on the market suitable for a variety of applications, including both industrial and consumer products. However, these systems can capture only a two-dimensional projection (2D), or intensity map, of the scene under observation, losing a variable of paramount importance, i.e., the arrival time of the impinging photons. Time-Of-Flight (TOF) Range-Imaging (TOF) is an emerging sensor technology able to deliver, at the same time, depth and intensity maps of the scene under observation. Featuring different sensor resolutions, RIM cameras serve a wide community with a lot of applications like monitoring, architecture, life sciences, robotics, etc. This book will bring together experts from the sensor and metrology side in order to collect the state-of-art researchers in these fields working with RIM cameras. All the aspects in the acquisition and processing chain will be addressed, from recent updates concerning the photo-detectors, to the analysis of the calibration techniques, giving also a perspective onto new applications domains.

TIME-OF-FLIGHT CAMERAS

PRINCIPLES, METHODS AND APPLICATIONS

Springer Science & Business Media Time-of-flight (TOF) cameras provide a depth value at each pixel, from which the 3D structure of the scene can be estimated. This new type of active sensor makes it possible to go beyond traditional 2D image processing, directly to depth-based and 3D scene processing. Many computer vision and graphics applications can benefit from TOF data, including 3D reconstruction, activity and gesture recognition, motion capture and face detection. It is already possible to use multiple TOF cameras, in order to increase the scene coverage, and to combine the depth data with images from several colour cameras. Mixed TOF and colour systems can be used for computational photography, including full 3D scene modelling, as well as for illumination and depth-of-field manipulations. This work is a technical introduction to TOF sensors, from architectural and design issues, to selected image processing and computer vision methods.

SURVEILLANCE AND RECONNAISSANCE IMAGING SYSTEMS

MODELING AND PERFORMANCE PREDICTION

Artech House Here's an up-to-date, comprehensive review of surveillance and reconnaissance (S & R) imaging system modeling and performance prediction. This new, one-of-a-kind resource helps you predict the information potential of new surveillance system designs, compare and select from alternative measures of information extraction, relate the performance of tactical acquisition sensors and surveillance sensors, and understand the relative importance of each element of the image chain on S& R system performance. It provides you with system descriptions and characteristics, S& R modeling history, and performance modeling details.

STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA

Amer Society of Civil Engineers C/ASCE Standard 38-02 presents a credible system for classifying the quality of utility location information that is placed in design plans. The Standard addresses issues such as: how utility information can be obtained, what technologies are available to obtain that information; how that information can be conveyed to the information users; who should be responsible for typical collection and depiction tasks; what factors determine which utility quality level attribute to assign to data; and what the relative costs and benefits of the various quality levels are. Used as a reference or as part of a specification, the Standard will assist engineers, project and utility owners, and constructors in developing strategies to reduce risk by improving the reliability of information on existing subsurface utilities in a defined manner.

PROGRESS IN CULTURAL HERITAGE PRESERVATION

4TH INTERNATIONAL CONFERENCE, EUROMED 2012, LEMESSOS, CYPRUS, OCTOBER 29 -- NOVEMBER 3, 2012, PROCEEDINGS

Springer Science & Business Media This book constitutes the refereed proceedings of the 4th International Conference on Progress in Cultural Heritage Preservation, EuroMed 2012, held in Lemesos, Cyprus, in October/November 2012. The 95 revised full papers were carefully reviewed and selected from 392 submissions. The papers are organized in topical sections on digital data acquisition technologies and data processing in cultural heritage, 2D and 3D data capture methodologies and data processing in cultural heritage, 2D and 3D GIS in cultural heritage, virtual reality in archaeology and historical research, standards, metadata, ontologies and semantic processing in cultural heritage, data management, archiving and presentation of cultural heritage content, ICT assistance in monitoring and restoration, innovative topics related to the current and future implementation, use, development and exploitation of the EU CH identity card, innovative technologies to assess, monitor and adapt to climate change, digital data acquisition technologies and data processing in cultural heritage, 2D and 3D data capture methodologies and data processing in cultural heritage, on-site and remotely sensed data collection, reproduction techniques and rapid prototyping in cultural heritage, 2D and 3D GIS in cultural heritage, innovative graphics applications and techniques, libraries and archives in cultural heritage, tools for education, documentation and training in CH, standards, metadata, ontologies and semantic processing in cultural heritage, damage assessment, diagnoses and monitoring for the preventive conservation and maintenance of CH, information management systems in CH, European research networks in the field of CH, non-destructive diagnosis technologies for the safe conversation and traceability of cultural assets.

INDUSTRIALIZING ADDITIVE MANUFACTURING - PROCEEDINGS OF ADDITIVE MANUFACTURING IN PRODUCTS AND APPLICATIONS - AMPA2017

Springer These proceedings exchange ideas and knowledge among engineers, designers and managers on how to support real-world value chains by developing additive manufactured series products. The papers from the conference show a holistic, multidisciplinary view.

RADAR INTERFEROMETRY

PERSISTENT SCATTERER TECHNIQUE

Springer Science & Business Media This volume is devoted to the Persistent Scatterer Technique, the latest development in radar interferometric data processing. It is the only book on Permanent Scatterer (PS) technique of radar interferometry, and it details a newly developed stochastic model and estimator algorithm to cope with possible problems for the application of the PS technique. The STUN (spatio-temporal unwrapping network) algorithm, developed to cope with these issues in a robust way, is presented and applied to two test sites.

RECONSTRUCTION AND ANALYSIS OF 3D SCENES

FROM IRREGULARLY DISTRIBUTED 3D POINTS TO OBJECT CLASSES

Springer This unique work presents a detailed review of the processing and analysis of 3D point clouds. A fully automated framework is introduced, incorporating each aspect of a typical end-to-end processing workflow, from raw 3D point cloud data to semantic objects in the scene. For each of these components, the book describes the theoretical background, and compares the performance of the proposed approaches to that of current state-of-the-art techniques. Topics and features: reviews techniques for the acquisition of 3D point cloud data and for point quality assessment; explains the fundamental concepts for extracting features from 2D imagery and 3D point cloud data; proposes an original approach to keypoint-based point cloud registration; discusses the enrichment of 3D point clouds by additional information acquired with a thermal camera, and describes a new method for thermal 3D mapping; presents a novel framework for 3D scene analysis.

ADJUSTMENT COMPUTATIONS

SPATIAL DATA ANALYSIS

John Wiley & Sons The definitive guide to bringing accuracy to measurement, updated and supplemented Adjustment Computations is the classic textbook for spatial information analysis and adjustment computations, providing clear, easy-to-understand instruction backed by real-world practicality. From the basic terms and fundamentals of errors to specific adjustment computations and spatial information analysis, this book covers the methodologies and tools that bring accuracy to surveying, GNSS, GIS, and other spatial technologies. Broad in scope yet rich in detail, the discussion avoids overly-complex theory in favor of practical techniques for students and professionals. This new sixth edition has been updated to align with the latest developments in this rapidly expanding field, and includes new video lessons and updated problems, including worked problems in STATS, MATRIX, ADJUST, and MathCAD. All measurement produces some amount of error; whether from human mistakes, instrumentation inaccuracy, or environmental features, these errors must be accounted and adjusted for when accuracy is critical. This book describes how errors are identified, analyzed, measured, and corrected, with a focus on least squares adjustment—the most rigorous methodology available. Apply industry-standard methodologies to error analysis and adjustment Translate your skills to the real-world with instruction focused on the practical Master the fundamentals as well as specific computations and analysis Strengthen your understanding of critical topics on the Fundamentals in Surveying Licensing Exam As spatial technologies expand in both use and capability, so does our need for professionals who understand how to check and adjust for errors in spatial data. Conceptual knowledge is one thing, but practical skills are what counts when accuracy is at stake; Adjustment Computations provides the real-world training you need to identify, analyze, and correct for potentially crucial errors.

COMPOSITE FLOOR STRUCTURES

FIB - International Federation for Structural Concrete

THE GEOMETRY OF CREATION

ARCHITECTURAL DRAWING AND THE DYNAMICS OF GOTHIC DESIGN

Routledge The flowering of Gothic architecture depended to a striking extent on the use of drawing as a tool of design. By drawing precise "blueprints" with simple tools such as the compass and straightedge, Gothic draftsmen were able to develop a linearized architecture of unprecedented complexity and sophistication. Examination of their surviving drawings can provide valuable and remarkably intimate information about the Gothic design process. Gothic drawings include compass pricks, uninked construction lines, and other telltale traces of the draftsman's geometrically based working method. The proportions of the drawings, moreover, are those actually intended by the designer, uncompromised by errors introduced in the construction process. All of these features make these drawings ideal subjects for the study of Gothic design practice, but their geometry has to date received little systematic attention. This book offers a new perspective on Gothic architectural creativity. It shows, in a series of rigorous geometrical case studies, how Gothic design evolved over time, in two senses: in the hours of the draftsman's labor, and across the centuries of the late Middle Ages. In each case study, a series of computer graphics show in unprecedented detail how a medieval designer could have developed his architectural concept step by step, using only basic geometrical operations. Taken together, these analyses demonstrate both remarkable methodological continuity across the Gothic era, and the progressive development of new and sophisticated permutations on venerable design themes. This rich tradition ultimately gave way in the Renaissance not because of any inherent problem with Gothic architecture, but because the visual language of Classicism appealed more directly to the pretensions of Humanist princes than the more abstract geometrical order of Gothic design, as the book's final chapter demonstrates.

ELASTIC SOLUTIONS FOR SOIL AND ROCK MECHANICS

John Wiley & Sons

HIGH SOLID BINDERS

Vincentz Network GmbH & Co KG To conserve resources, protect the environment, and yet formulate high performance coatings at an acceptable cost: these challenges are readily met by high solids. Such systems are the epitome of high performance and low environmental impact. They are usually the best option where solvent-borne systems would otherwise be the only choice. This book delivers comprehensive knowledge in the field of high solid systems. More especially, it provides an overview of the various classes of binders and ways of transforming them into high solid binders. It lists a broad range of options and approaches for tackling technological and environmental problems.

DESIGN OF SMALL DAMS

BUILDING INFORMATION MODELING

A STRATEGIC IMPLEMENTATION GUIDE FOR ARCHITECTS, ENGINEERS, CONSTRUCTORS, AND REAL ESTATE ASSET MANAGERS

John Wiley & Sons The optimal approach to design, build, operate, and maintain buildings With this strategic guide to building information modeling(BIM), you'll learn how to implement this new technology as part of a comprehensive systems approach to the design, construction, management, operation, maintenance, and use of buildings. The authors, among the leading experts and pioneers in BIM, show you how BIM supports more streamlined, integrated, and efficient business processes throughout the lifecycle of

buildings, from their initial conception through their eventual retirement or reuse. The result is better quality buildings, lower construction and operating costs, shorter project turnaround times, and a higher quality of building information to support better business decisions. Moreover, they set forth a plan for incorporating BIM into every organization's existing workflows, enabling you to take full advantage of all the benefits that BIM offers. Everything you need to implement a BIM approach is set forth in detail, including: The business case for BIM, demonstrating how it can improve collaboration, facilitate better design and construction, optimize workflow, and help reduce risk. Guidance for meeting the challenges of BIM such as an entrenched business culture, the proliferation of BIM tools, and the uneven rates of BIM adoption. The "big picture" view showing how your organization can work with business partners and fit into the building life cycle in a BIM-enabled industry. Throughout the book, sample documents and figures help you better understand the principles of BIM and how it works in practice. In addition, first-hand accounts show you exactly how adopters of BIM have gained a competitive edge. Architects, engineers, constructors, building owners, and facility managers can turn to this book to realize the full potential of BIM and radically improve the way buildings are designed, built, operated, and maintained.

EXTREME SPORTS MEDICINE

Springer This technically oriented book on medicine as applied to extreme sports offers broad coverage of the field extending well beyond the usual focus on major trauma and acute injuries. In addition to the injuries and diseases associated with individual extreme sports, this book also addresses the topics of psychology, dermatology, ophthalmology, infectious diseases, physiology, nutrition, training, injury prevention strategies, rehabilitation, doping, treatment in hostile environments, and legal aspects. Innovative and less frequently considered topics are also discussed, such as recent advances in protective equipment and materials, the effects of exposure on whole-body vibration, and cold exposure risk management. More than 60 of the most authoritative experts from across the world have contributed to this book, drawing on their personal experiences and including practical examples whenever relevant. Both subject matter and illustrations have been selected with the utmost care, the latter including photographs of world-class athletes. The book's multidisciplinary approach to the subject ensures that it will be relevant to a wide readership.

SURVEYING MEASUREMENTS AND THEIR ANALYSIS

EXPLORATIONS IN ALBANIA, 1930-39

THE NOTEBOOKS OF LUIGI CARDINI, PREHISTORIAN WITH THE ITALIAN ARCHAEOLOGICAL MISSION

British School of Athens In 1999 a collection of documents were found in the archives of the Italian Institute of Human Palaeontology belonging to Luigi Cardini, one of the founders of the Institute. These documents included site notebooks, photographs, drawings and maps relating to work carried out in Albania from 1930-39 where he was sent on a governmental mission to 'reinforce Italian supremacy in Albania through archaeological research'. This monograph publishes extracts from these notebooks within a historical, political and archaeological context. The work he carried out is synthesised and a report is included on survey work carried out in 2000 and 2001 to attempt to relocate many of Cardini's cave sites described in his notebooks.

DAMNATION MARKED

AN URBAN FANTASY NOVEL

SM Reine There's something in the earth deep below Elise Kavanagh's territory. A shadow is falling upon local demons to devour their flesh and harvest their souls. And it's coming for Elise next. The Union has an easy way out. They want to send Elise into hiding again with her former partner, James Faulkner. All she has to do is surrender the territory and trust that they can protect the ethereal ruins, the dark gate, and the city she's come to know as home. Greater powers have other plans for Elise and her fabled power as Godslayer-plans that mean surrendering her life and blood to the most powerful demon alive. But if she descends, there's no turning back. Once she gazes into the abyss, it will gaze back into her...and Elise will be damned forever.

TIME-OF-FLIGHT CAMERAS AND MICROSOFT KINECT™

Springer Science & Business Media Time-of-Flight Cameras and Microsoft Kinect™ closely examines the technology and general characteristics of time-of-flight range cameras, and outlines the best methods for maximizing the data captured by these devices. This book also analyzes the calibration issues that some end-users may face when using these type of cameras for research, and suggests methods for improving the real-time 3D reconstruction of dynamic and static scenes. Time-of-Flight Cameras and Microsoft Kinect™ is intended for researchers and advanced-level students as a reference guide for time-of-flight cameras. Practitioners working in a related field will also find the book valuable.

QUATERNARY SEA-LEVEL CHANGES

Cambridge University Press An important overview of Quaternary climates including detailed Pleistocene and Holocene sea-level changes, for researchers and graduate and advanced undergraduate students.

THE BALTIC SEA BASIN

Springer Science & Business Media This book reports about the results of a Special Symposium "The Baltic Sea Basin", held on August 11, 2008, within the frame of the 33rd IGC at Oslo, Norway in order to foster the understanding of the Baltic Basin as a unit in terms of genesis, structure, ongoing processes and utilization. It is the first time that in a joint publication, scientists from different disciplines give a comprehensive overview about the Baltic Sea basin in such a general sense. The book will be used not only by students and scientist but also by engineers and decision makers from industry and politics. Summarizing the state of the art in the investigation of the Baltic Sea Basin, but also in the resource utilisation of the basin the book will enhance the development of new monitoring strategies and technical device design including satellite observation methods, the establishment of international research laboratories, innovative topics for interdisciplinary research projects, etc.