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Handbook of X-ray Imaging IGI Global

Until recently, a majority of the applications of X-ray computed tomography (CT) scanning in plant sciences remained descriptive; some included a quantification of the plant materials when the root-soil isolation or branch-leaf separation was satisfactory; and a few involved the modeling of plant biology processes or the assessment of treatment or disease effects on plant biomass and structures during growth. In the last decade, repeated CT scanning of the same plants was reported in an increasing number of studies in which moderate doses of X-rays had been used. Besides the general objectives of *Frontiers in Plant Science* research topics, “Branching and Rooting Out with a CT Scanner” was proposed to meet specific objectives: (i) providing a non-technical update on knowledge about the application of CT scanning technology to plants, starting with the type of CT scanning data collected (CT images vs. CT numbers) and their processing in the graphical and numerical approaches; (ii) drawing the limits of the CT scanning approach, which because it is based on material density can distinguish materials with contrasting or moderately overlapping densities (e.g., branches vs. leaves, roots vs. non-organic soils) but not the others (e.g., roots vs. organic soils); (iii) explaining with a sufficient level of detail the main procedures used for graphical, quantitative and statistical analyses of plant CT scanning data, including fractal complexity measures and statistics appropriate for repeated plant CT scanning, in experiments where the research hypotheses are about biological processes such as light interception by canopies, root disease development and plant growth under stress conditions; (iv) comparing plant CT scanning with an alternative technology that applies to plants, such as the phenomics platforms which target leaf canopies; and (v) providing current and potential users of plant CT scanning with up-to-date information and exhaustive documentation, including clear perspectives and well-defined goals for the future, for them to be even more efficient or most efficient from start in their research work.

International Survey of Library & Museum Digitization Projects UNC Press Books

Plants have been exposed to multiple environmental stressors on long-term (seasonal) and short-term (daily) basis since their appearance on land. However, the frequency and the intensity of stress events have increased much during the last three decades because of climate change. Plants have developed, however, a multiplicity of modular and highly integrated strategies to cope with challenges imposed by novel, usually harsher environments. These strategies include migration, acclimation and adaptation. Twelve articles in this research topic exactly focus on the relative significance of these response mechanisms for the successful acclimation of plants to a wide range of novel environmental pressures. Four articles, additionally, explore how plants respond to severe stress conditions resulting from the concurrent action of multiple stressors. Ten articles mostly examine how morpho-anatomical, physiological and biochemical-related traits integrate when plants suffer from ‘novel’ threats, such as solid, gaseous, and electromagnetic pollutants. Suitable physiological indicators for developing conservation

strategies are described in the last two works. This research topic highlights that bottom-up, as well as, top-down approaches will be necessary to develop in near future in the study of plants’ responses to environmental pressures.

No specimen left behind: mass digitization of natural history collections Primary Research Group Inc

Present Your Research to the World! The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM - is the world’s leading forum for presenting the results of current scientific work in health-related physics and technologies to an international audience. With more than 2,800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009! Medical physics, biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues. As a major event for science, medicine and technology the congress provides a comprehensive overview and in–depth, first-hand information on new developments, advanced technologies and current and future applications. With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich! Olaf Dössel Congress President Wolfgang C.

Stereotactic Radiosurgery and Stereotactic Body Radiation Therapy M ó rula Editorial

While web-based accessible materials have offered academic libraries an effective approach to managing electronic records and resources for its service population, a cross-discipline approach has not yet been executed. Cases on Electronic Records and Resource Management Implementation in Diverse Environments brings together real-life examples of how electronic records and resource management have been implemented across disciplines. Offering theories amid legal and ethical concerns of electronic records and resource management, this publication is essential for professionals involved in the education of library and information science and the training of individuals responsible for electronic records management in various disciplines.

Virtual Reality Photography Frontiers Media SA

Cancer and cardiovascular disease (CVD) are the two most common causes of mortality and morbidity worldwide. The incidence of both cancer and cardiovascular disease increases with age. With increased life expectancy, the burden of both these diseases will increase substantially in coming years. Patients with CVD share multiple common risk factors and lifestyle behaviors in addition to frequently suffering from multiple comorbid conditions. Tobacco use, hypertension, high cholesterol, diabetes, physical inactivity, and poor nutrition are all established risk factors of heart disease. Patients with diseases such as breast cancer may develop CVD from treatment, such as use of chemotherapy and RT. Effects on the heart are a potentially significant and serious clinical problem in radiation therapy treatment of breast cancer. Over the course of the past 50 years, there have been great advances in the delivery of RT due to the development of new techniques, beam energy, improvement in imaging modalities, and development of image registration strategies. It is hypothesized that cardiac damage from RT is correlated to the dose absorbed by the heart and differs between left- and right-breast radiotherapy. The damage to cardiac micro- and macro-vasculature is the pathophysiological cause of RT-related heart disease. Given the growing clinical relevance of cardio-oncology, this *Frontiers in Oncology Research* Topic provides a venue for disseminating focused reviews and cutting edge research in this quickly growing field. We encourage submission of original papers and reviews dealing with cardiac toxicity after breast cancer treatment, motion management to reduce cardiac exposure, imaging to evaluate potential cardiac toxicities and primary prevention of cardiac disease in the breast cancer patient.

Spectra of Ionized Atoms: From Laboratory to Space Springer

Latin America is a megadiverse territory hosting several hotspots of plant diversity and many types of forest biomes, ecosystems and climate types, from tropical rainforest to semi-arid woodlands. This combination of diverse forests and climates generates multiple responses to ecological changes affecting the structure and functioning of forest ecosystems. Recently, there have been major efforts to improve our understanding of such impacts on ecosystems processes. However, there is a dearth of studies focused on Latin-American forest ecosystems that could provide novel insights into the patterns and mechanisms of ecological processes in response to environmental stress. The abundance of “New World” tree species with dendrochronological potential constitutes an ideal opportunity to improve the ecological state of knowledge regarding these diverse forest types, which are often threatened by several impacts such as logging or conversion to agricultural lands. Thus, detailed

information on the dendroecology of these species will improve our understanding of forests in the face of global change. Accordingly, this book identifies numerous relevant ecological processes and scales, ranging from tree species to populations and communities, and from both dendrochronological and dendroecological perspectives. It offers a valuable reference guide for the exploration of long-term ecological interactions between trees and their environmental conditions, and will foster further research and international projects on the continent and elsewhere.

Digitization in the Real World Frontiers Media SA

Written by internationally known experts in the field, *Stereotactic Radiosurgery and Stereotactic Body Radiation Therapy* examines one of the fastest-developing subspecialties within radiation oncology. These procedures deliver large doses of radiation in one to five sessions to a precisely determined target. Often these techniques have proven to be as or more effective than traditional radiation therapy techniques, while at the same time being cost-efficient and convenient for the patient. These techniques, however, require careful planning, specialized equipment, and well-trained staff. This volume provides a cutting-edge look at the biological and technical underpinnings of SRS and SBRT techniques. It includes a history of the development of SRS and SBRT; clinical applications of the techniques; dedicated devices for delivering precisely shaped, high doses of radiation; use of in-room imaging for treatment planning and treatment guidance; immobilization techniques for accurate targeting; and future developments that will continue to evolve and refine existing techniques. A valuable introduction to those just learning about these specialized techniques, and an ideal reference for those who are already implementing them, this book covers a wide variety of topics, with clear discussions of each aspect of the technology employed.

World Congress on Medical Physics and Biomedical Engineering 2018 BoD – Books on Demand

Edward Emerson Barnard's *Photographic Atlas of Selected Regions of the Milky Way* was originally published in two volumes in 1927. Together, these volumes contained a wealth of information, including photographic plates of the most interesting portions of the Milky Way, descriptive text, charts and data. Only 700 copies were printed, making the original edition a collector's item. Reproduced in print for the first time, this edition combines both volumes of Barnard's Atlas. It directly replicates Barnard's text, and contains high-resolution images of the original photographic plates and charts, reordered so that they can be seen together. It also includes a biography of Barnard and his work, a Foreword and Addendum by Gerald Orin Dobek describing the importance of the Atlas and additions to this volume, and a pull-out section with a mosaic of all 50 plates combined in a single panorama. *Evolution of Crop Genomes and Epigenomes* Cambridge University Press

Centuries of exploration and discovery have documented the diversity of life on Earth. Records of this biodiversity are, for the most part, distributed across varied and distinct natural history collections worldwide. This makes the task of extracting and mobilising the information within these collections an immense challenge. ÿ ÿ In this special issue of *ZooKeys*, 18 papers by 81 authors examine progress and prospects for mass digitising entire natural history collections. These papers provide a snapshot of activity, in what is a fast moving field that is seeing ever-increasing degrees of collaboration across disciplines and between collection-based institutions. Examples of research covered by these articles include a description to efforts digitise 30 million plant, invertebrate and vertebrate specimens at NCB Naturalis in the Netherlands; new scanning and telemicroscopy solutions to digitise the millions of pinned insect specimens held in the Australian National Insect Collection and its European and North American counterparts; citizen science projects being used to crowdsource the transcription of thousands of specimen labels and field notebooks; and new data portals providing central access to millions of biological specimens across Europe. ÿ ÿ Many of these projects deal with the unique challenges associated with major collections that have built up over several centuries, with different communities of practices and different user communities. Despite many differences, standards for collection acquisition, preservation and documentation are broadly consistent, meaning that there is sufficient common ground to bring together the enormous amounts of data that are being exposed through mass digitisation efforts. These data will become the new frontier for natural history collection management and research in the next decade.

Applied Nuclear Physics at Accelerators ScholarlyEditions

Issues in Discovery, Experimental, and Laboratory Medicine: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about *Discovery, Experimental, and Laboratory Medicine: 2011 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about *Discovery, Experimental, and Laboratory Medicine* in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Issues in Discovery, Experimental, and Laboratory Medicine: 2011 Edition* has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

[Charged Particles in Oncology](#) Springer

High-energy charged particles represent a cutting-edge technique in radiation oncology. Protons and carbon ions are used in several centers all over the world for the treatment of different solid tumors. Typical indications are ocular malignancies, tumors of the base of the skull, hepatocellular carcinomas and various sarcomas. The physical characteristics of the charged particles (Bragg peak) allow sparing of much more normal tissues than it is possible using conventional X-rays, and for this reason all pediatric tumors are considered eligible for protontherapy. Ions heavier than protons also display special radiobiological characteristics, which make them effective against radioresistant and hypoxic tumors. On the other hand, protons and ions with high charge (Z) and energy (HZE particles) represent a major risk for human space exploration. The main late effect of radiation exposure is cancer induction, and at the moment the dose limits for astronauts are based on cancer mortality risk. The Mars Science Laboratory (MSL) measured the dose on the route to Mars and on the planet's surface, suggesting that a human exploration missions will exceed the radiation risk limits. Notwithstanding many studies on carcinogenesis induced by protons and heavy ions, the risk uncertainty remains very high. In this research topic we aim at gathering the experiences and opinions of scientists dealing with high-energy charged particles either for cancer treatment or for space radiation protection. Clinical results with protons and heavy ions, as well as research in medical physics and pre-clinical radiobiology are reported. In addition, ground-based and spaceflight studies on the effects of space radiation are included in this book. Particularly relevant for space studies are the clinical results on normal tissue complications and second cancers. The eBook nicely demonstrates that particle therapy in oncology and protection of astronauts from space radiation share many common topics, and can learn from each other.

[Aquananotechnology](#) CRC Press

Containing chapter contributions from over 130 experts, this unique publication is the first handbook dedicated to the physics and technology of X-ray imaging, offering extensive coverage of the field. This highly comprehensive work is edited by one of the world's leading experts in X-ray imaging physics and technology and has been created with guidance from a Scientific Board containing respected and renowned scientists from around the world. The book's scope includes 2D and 3D X-ray imaging techniques from soft-X-ray to megavoltage energies, including computed tomography, fluoroscopy, dental imaging and small animal imaging, with several chapters dedicated to breast imaging techniques. 2D and 3D industrial imaging is incorporated, including imaging of artworks. Specific attention is dedicated to techniques of phase contrast X-ray imaging. The approach undertaken is one that illustrates the theory as well as the techniques and the devices routinely used in the various fields. Computational aspects are fully covered, including 3D reconstruction algorithms, hard/software phantoms, and computer-aided diagnosis. Theories of image quality are fully illustrated. Historical, radioprotection, radiation dosimetry, quality assurance and educational aspects are also covered. This handbook will be suitable for a very broad audience, including graduate students in medical physics and biomedical engineering; medical physics residents; radiographers; physicists and engineers in the field of imaging and non-destructive industrial testing using X-rays; and scientists interested in understanding and using X-ray imaging techniques. The handbook's editor, Dr. Paolo Russo, has over 30 years' experience in the academic teaching of medical physics and X-ray imaging research. He has authored several book chapters in the field of X-ray imaging, is Editor-in-Chief of an international scientific journal in medical physics, and has responsibilities in the publication committees of international scientific organizations in medical physics. Features: Comprehensive coverage of the use of X-rays both in medical radiology and industrial testing The first handbook published to be dedicated to the physics and technology of X-rays Handbook edited by world authority, with contributions from experts in each field

[Radiochromic Film](#) Frontiers Media SA

A reference book on the art and techniques of virtual reality photography by one of the pioneers in the field, Scott Highton. The book includes sections on Photography Basics, Panoramic VR Imaging, Object VR Imaging, and Business Practices. Intended audience includes both professional and amateur photographers, as well as multimedia authors and designers.

[Latin American Dendroecology](#) Primary Research Group Inc

Advances in Dosimetry and New Trends in Radiopharmaceuticals is organized into two sections. The first section discusses different dosimetry methods that are used in radiotherapy systems, such as image-guided radiotherapy (IGRT). The second section examines the types and quality of radiochemical applications in nuclear medicine and their radiation dosimetry analysis.

[Omics-Driven Crop Improvement for Stress Tolerance](#) Lulu.com

O livro é resultado do trabalhos de profissionais que atuam em diferentes áreas do patrimônio cultural nas Américas e Península Ibérica, movidos por interesses, trajetórias e contextos distintos, que se entrelaçam em momentos e encerram causas comuns e consensos, dos quais destaca-se o valor central que é o compartilhamento de suas experiências, práticas e conhecimentos; a compreensão o comum de que a preservação e a valorização do patrimônio cultural pressupõe em aprender e avançar juntos, solidariamente; e a percepção, que se transforma em responsabilidade, do quanto toda a humanidade pode ser afetada a partir da perda de um bem ou de uma manifestação cultural local.

[Phenomics](#) Frontiers Media SA

This book is a printed edition of the Special Issue "Spectra of Ionized Atoms: From Laboratory to Space" that was published in *Atoms*

[Abordagens e experiências na preservação do patrimônio cultural nas Américas e Península Ibérica](#) Frontiers Media SA

Southeastern Geographer VOLUME 54, NUMBER 2 : SUMMER 2014 Table of Contents Cover Art The Buddha Abides in Mississippi Mark M. Miller Introduction to Southeastern Geographer, Volume 54, Number 2 Carl A. Reese and David M. Cochran Part I: Papers The Geography of Non-Earned Income in the Piedmont Megapolitan Cluster Keith G. Debbage, Bradley Bereitschaft, and Edward Beaver Challenges and Opportunities for Southeast Agriculture in a Changing Climate: Perspectives from State Climatologists Pam Knox, Chris Fuhrmann, and Chip Konrad Peoples' Perceptions of Housing Market Elements in Knoxville, Tennessee Madhuri Sharma Structure and Dynamics of an Old-Growth Pine-Oak Community in the Southern Appalachian Mountains, Georgia, U.S.A. Christopher A. Petruccioli, John Sakulich, Grant L. Harley, and Henri D. Grissino-Mayer "A Tale of Mice and Men": The WPA, the LSU Indian Room Museum, and the Emergence of Professional Archaeology in the U.S. South Amy E. Potter, Dydia DeLyser, and Rebecca Saunders Part II: Reviews Drive: A Road Trip Through our Complicated Affair with the Automobile Tim Falconer Reviewed by Dawn M. Drake Fields and Streams: Stream Restoration, Neoliberalism, and the Future of Environmental Science Rebecca Lave Reviewed by Eric Nost Southeastern Geographer is published by UNC Press for the Southeastern Division of the Association of American Geographers (www.sedaag.org). The quarterly journal publishes the academic work of geographers and other social and physical scientists, and features peer-reviewed articles and essays that reflect sound scholarship and contain significant contributions to geographical understanding, with a special interest in work that focuses on the southeastern United States.

[Southeastern Geographer](#) Frontiers Media SA

This comprehensive book covers the everyday use and underlying principles of radiation dosimeters used in radiation oncology clinics. It provides an up-to-date reference spanning the full range of current modalities with emphasis on practical know-how. The main audience is medical physicists, radiation oncology physics residents, and medical physics graduate students. The reader gains the necessary tools for determining which detector is best for a given application. Dosimetry of cutting edge techniques from radiosurgery to MRI-guided systems to small fields and proton therapy are all addressed. Main topics include fundamentals of radiation dosimeters, brachytherapy and external beam radiation therapy dosimetry, and dosimetry of imaging modalities. Comprised of 30 chapters authored by leading experts in the medical physics community, the book: Covers the basic principles and practical use of radiation dosimeters in radiation oncology clinics across the full range of current modalities. Focuses on providing practical guidance for those using these detectors in the clinic. Explains which detector is more suitable for a particular application. Discusses the state of the art in radiotherapy approaches, from radiosurgery and MR-guided systems to advanced range verification techniques in proton therapy. Gives critical comparisons of dosimeters for photon, electron, and proton therapies. Cases on Electronic Records and Resource Management Implementation in Diverse Environments

Frontiers Media SA Effective administration of libraries is a crucial part of delivering library services to the public. To develop and implement best practices, librarians must be aware and informed of the recent advances in library administration. Library Science and Administration: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and management of libraries and examines the benefits and challenges of library administration. Highlighting a range of pertinent topics such as digital libraries, information sciences, and academic libraries, this multi-volume book is ideally designed for academicians, researchers, practitioners, and librarians seeking current research on library science and administration.

[Survey of Library & Museum Digitization Projects, 2014 Edition](#) Frontiers Media SA

This book (vol. 3) presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics, a triennially organized joint meeting of medical physicists, biomedical engineers and adjoining health care professionals. Besides the purely scientific and technological topics, the 2018 Congress will also focus on other aspects of professional involvement in health care, such as education and training, accreditation and certification, health technology assessment and patient safety. The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge, and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field.