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The Journal of Experimental Biology Frontiers Media SA

This book represents a pioneer initiative to describe the new technologies available for next-generation phenotyping and applied to plant breeding. Over the last several years plant breeding has experienced a true revolution. Phenomics, i.e., high-throughput phenotyping using automation, robotics and remote data collection, is changing the way cultivars are developed. Written in an easy to understand style, this book offers an indispensable reference work for all students, instructors and scientists who are interested in the latest innovative technologies applied to plant breeding.

Plants' Responses to Novel Environmental Pressures ScholarlyEditions Handbook of X-ray Imaging CRC Press

Environmental Protection and Sustainable Ecological Development Frontiers Media SA

Selene 's Two Faces sets out to look at the scientific purposes, the aesthetic expression, and the influence of early lunar drawings, maps and photographs, including spacecraft imaging. Cases on Electronic Records and Resource Management Implementation in Diverse Environments Frontiers Media SA

"The 34 papers presented in this book represent our best effort to present a diverse and comprehensive overview of key issues in the management and realization of digitization projects. ... This is, above all, a book written by practitioners for practitioners who together recognize the critical needs and goals in digitization in our industry"--P. xxi.

Digitization in the Real World Virtual Reality Photography

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.

Library Science and Administration: Concepts, Methodologies, Tools, and Applications Primary Research Group Inc

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.

Southeastern Geographer IGI Global

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

Spectra of Ionized Atoms: From Laboratory to Space Primary Research Group Inc

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.

Aquananotechnology Springer Nature

This book offers a collection of papers presented at the First International Conference " Information Technologies in the Research of Biodiversity " that was held from 11-14 September 2018 in Irkutsk (Russia). Papers in this book cover areas of interaction of knowledge on biodiversity and information technologies. The main topics include: methods, models, software systems for the analysis of biodiversity data; global data portals; information and analytical systems on biodiversity; application of remote methods in vegetation mapping; theoretical fundamentals and organization technologies of the information and telecommunications infrastructures.

Survey of Library & Museum Digitization Projects, 2014 Edition CRC Press

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. Phenomics MDPI

Legumes crops have an extraordinary importance for the agriculture and the environment. In a world urgently requiring more sustainable agriculture, food security and healthier diets the demand for legume crops is on the rise. The International Legume Society (<http://ils.nsseme.com>) organizes a triannual series of conferences with the goal to serve as a forum to discuss interdisciplinary progress on legume research. The Second International Legume Society Conference (ILS2) hosted in October 2016 at Troia, Portugal was the starting point for the Research Topic " Advances in Legume Research " in FIPS, that was also open to spontaneous submissions.

International Survey of Library & Museum Digitization Projects Cambridge University Press 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. Lonely Heart: The Art of Tara McPherson UNC Press Books 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.

[Latin American Dendroecology](#) Frontiers Media SA

This report looks at the developing digital library practices of leading universities and cultural institutions including Cornell University, Oregon State University, the University of Chicago and the Museum of Natural History, among others. In detailed profiles based on lengthy interviews with directors of digital resources and other individuals with authority over major digitization efforts, the study details developments in content management, marketing, metadata development, collaborations, revenue generation, copyright clearance, use of social media, grants and fundraising, program assessment and metrics, equipment use and acquisition, staff development, preservation, donor management and other areas of interest to digitizers of content in libraries, higher education, government and museums. The study looks closely at the emergence of the academic library as a publisher and generator of digital content, not just as a custodian or receptacle. Increasingly, digitizers of content have entered the scholarly and educational mainstream and have propelled their content into prominent positions in their institutions.

[Recent Advances of Epigenetics in Crop Biotechnology](#) Frontiers Media SA

As proton therapy treatment centers become smaller and more cost-effective, education and training for today's multi-disciplinary oncology teams are more important than ever before. This state-of-the-art reference brings you fully up to date with all aspects of proton therapy, with guidance you can trust from MD Anderson Cancer Center, the largest and most experienced proton therapy center in the world. Led by Drs. Steven J. Frank and W. Ronald Zhu, Proton Therapy provides a unique opportunity to benefit from the unsurpassed knowledge and expertise of an esteemed team of leaders in the field. Covers all cancers for which proton therapy is used most often, including prostate, head and neck, pediatrics, central nervous system, gastrointestinal, sarcomas, lungs, breast, lymphomas, and gynecologic cancers. Provides up-to-date information on radiobiology, treatment planning and quality assurance, indications for proton therapy, management approaches, and outcomes after proton therapy by disease site. Discusses technologic advances such as spot scanning and treatment planning systems for the management of solid tumors; radiobiology of proton therapy, including DNA damage and repair mechanisms and acute and late effects on normal tissues; and multifield optimized intensity-modulated proton therapy (MFO-IMPT) for optimizing the distribution of linear energy transfer (LET) of proton beams within target volumes and away from critical normal structures. Includes a special section on head and neck cases in the e-book that photographically illustrates the full cycle of proton therapy care.

[Radiochromic Film](#) Cuvillier Verlag

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.

[Proton Therapy E-Book](#) CRC Press

[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. Petrucelli, 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.

[Selene's Two Faces Handbook of X-ray Imaging](#)

This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics, a tri-annual high-level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine. The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare. It provides a unique and important forum to secure a coordinated, multileveled global response to the need, demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health.

[Cardiovascular Toxicities of Breast Cancer Treatment: Emerging Issues in Cardio-Oncology](#) Lulu.com

This volume contains the papers presented at the 2014 International Conference on Environmental Protection and Sustainable Ecological Development (EPSED2014). The contributions cover the latest research results and explore new areas of research and development, like Earth Science, Resource Management, Environmental Protection, and Sustainable

[Branching and Rooting Out with a CT Scanner: The Why, the How, and the Outcomes, Present and Possibly Future](#) Springer

The compelling paintings and posters of Tara McPherson are a tour de force of creative tension, at once heartfelt and heartbreaking. Creating art about people and their odd ways, recalling many issues from childhood and adult life experience, McPherson creates images that are thought provoking and seductive. Tara's array of work includes numerous gig posters for rock bands, including Green Day, Modest Mouse, and Death Cab for Cutie, and advertising and editorial illustrations for a diverse group of clients. Her prints and paintings have been exhibited in galleries all over the world. Lonely Heart is the first printed collection of McPherson's work. • Foreword by Frank Kozik!

• This collection features full-color illustrations throughout.