Download Introduction To Imaging Issues In Constructing An Image Database

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Introduction to Imaging

Introduces the technology of digital imaging and illustrates the choices that must be made when images are digitized. Explains how to create digital image databases, how to integrate an image database with other information resources and how to interchange visual information among a variety of computerized systems.

Introduction to Imaging

"The first edition of Introduction to Imaging was published in 1995 and quickly became a standard textbook on the construction of digital image collections. The Visual Resources Association Bulletin praised it for setting forth "important basic principles and technical terms that anyone beginning an imaging project would need to know."" "Significantly expanded and updated, the revised edition of Introduction to Imaging allows curators, librarians, collection managers, scholars, and students to better understand the basic technology and processes involved in building a cohesive set of digital images. It also explores how to link digitized images to the information required to access, preserve, and manage them. Other topics include making data interoperable with other information resources and activities; developing strategies that do not limit or foreclose future options; and ensuring the longevity of digital assets. Book jacket."--Jacket.

Introduction to Imaging

This primer introduces the technology and vocabulary of digital imaging and illustrates the choices that must be made when images are digitized. In addition to explaining the creation of digital images databases, the book identifies such fundamental issues as how to integrate an image database with other information resources and how to interchange visual information among a variety of computerized systems. The authors recommend strategies to ensure that future technological developments will not foreclose the options of upgrading databases and also provide a glossary of basic terms and a helpful bibliography. Introduction to Imaging is an essential tool for curators, librarians, collection managers, administrators, scholars, and students--anyone whose professional work has been changed by this new technology.

Introduction to Subsurface Imaging

Describing and evaluating the basic principles and methods of subsurface sensing and imaging, Introduction to Subsurface Imaging is a clear and comprehensive treatment that links theory to a wide range of real-world applications in medicine, biology, security and geophysical/environmental exploration. It integrates the different sensing techniques (acoustic, electric, electromagnetic, optical, x-ray or particle beams) by unifying the underlying physical and mathematical similarities, and computational and

algorithmic methods. Time-domain, spectral and multisensor methods are also covered, whilst all the necessary mathematical, statistical and linear systems tools are given in useful appendices to make the book self-contained. Featuring a logical blend of theory and applications, a wealth of color illustrations, homework problems and numerous case studies, this is suitable for use as both a course text and as a professional reference.

The Image of the City

The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

Artificial Intelligence in Medical Imaging

This book provides a thorough overview of the ongoing evolution in the application of artificial intelligence (AI) within healthcare and radiology, enabling readers to gain a deeper insight into the technological background of AI and the impacts of new and emerging technologies on medical imaging. After an introduction on game changers in radiology, such as deep learning technology, the technological evolution of AI in computing science and medical image computing is described, with explanation of basic principles and the types and subtypes of AI. Subsequent sections address the use of imaging biomarkers, the development and validation of AI applications, and various aspects and issues relating to the growing role of big data in radiology. Diverse real-life clinical applications of AI are then outlined for different body parts, demonstrating their ability to add value to daily radiology practices. The concluding section focuses on the impact of AI on radiology and the implications for radiologists, for example with respect to training. Written by radiologists and IT professionals, the book will be of high value for radiologists, medical/clinical physicists, IT specialists, and imaging informatics professionals.

Document Image Processing

This book is a printed edition of the Special Issue "Document Image Processing" that was published in J. Imaging

Proceedings

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Popular Science

The huge volume of neuroscience data and the wide variety of data formats generated across different neuroscience communities has posed a challenge to traditional methods of data management, data sharing and data mining. Mandates on data sharing and the demand for using open data has driven the development of advanced methodologies and tools to effectively explore, mine and integrate data. However, the growing number of resources make it harder for researchers to navigate this landscape. Awareness of these tools and resources is vital for effective data mining and unlocking new discoveries. The goal of this research collection is to provide an overview of available resources, centred around making data findable, accessible, interoperable and reusable (FAIR).

2009 IEEE Conference on Computer Vision and Pattern Recognition

Comprehensive and fully up to date, Dr. Peter Neligan’s six-volume masterwork, Plastic Surgery, 5th Edition, remains the gold standard text in this complex area of surgery. Completely revised to meet the demands of both the trainee and experienced surgeon, it features new, full-color clinical photos, procedural videos, and lectures across all six volumes. Bonus material online includes additional text, images, and over 200 procedural videos that help you improve your mastery of the latest techniques. Easily find the answers you need with an organization that features separate volumes covering

Principles • Aesthetic • Craniofacial, Head and Neck Surgery and Pediatric Plastic Surgery • Lower Extremity, Trunk and Burns • Breast • and Hand and Upper Extremity. Each easily readable, individual volume is a standalone comprehensive text full of salient and applicable anatomy and techniques. Key procedures include gender affirmation management and surgery, microsurgery and surgery for lymphedema, aesthetic facial surgery, aesthetic body surgery, and the education, training and practice of plastic surgery. New digital video preface by Dr. Neligan addresses the changes across all six volumes. New treatment and decision-making algorithms added to chapters where applicable. New video lectures and editor-narrated slide presentations offer a step-by-step audiovisual walkthrough of techniques and procedures. Four new international experts join the editorial team, and lead editor Peter C. Neligan creates a cohesive tone throughout the chapters and content across all six volumes. Evidence-based advice from a diverse collection of experts allows you to apply the very latest advances in every area of plastic surgery and ensure optimal outcomes. Purchase only the volumes you need or own the entire set, with the ability to search across all six volumes online!

Long-term Access Strategies for Federal Agencies

This open access book gives a complete and comprehensive introduction to the fields of medical imaging systems, as designed for a broad range of applications. The authors of the book first explain the foundations of system theory and image processing, before highlighting several modalities in a dedicated chapter. The initial focus is on modalities that are closely related to traditional camera systems such as endoscopy and microscopy. This is followed by more complex image formation processes: magnetic resonance imaging, X-ray projection imaging, computed tomography, X-ray phase-contrast imaging, nuclear imaging, ultrasound, and optical coherence tomography.

Navigating the Landscape of FAIR Data Sharing and Reuse: Repositories, Standards, and Resources

Remote sensing stands as the defining technology in our ability to monitor coral reefs, as well as their biophysical properties and associated processes, at regional to global scales. With overwhelming evidence that much of Earth's reefs are in decline, our need for large-scale, repeatable assessments of reefs has never been so great. Fortunately, the last two decades have seen a rapid expansion in the ability for remote sensing to map and monitor the coral reef ecosystem, its overlying water column, and surrounding environment. Remote sensing is now a fundamental tool for the mapping, monitoring and management of coral reef ecosystems. Remote sensing offers repeatable, quantitative assessments of habitat and environmental characteristics over spatially extensive areas. As the multi-disciplinary field of coral reef remote sensing continues to mature, results demonstrate that the techniques and capabilities continue to improve. New developments allow reef assessments and mapping to be performed with higher accuracy, across greater spatial areas, and with greater temporal frequency. The increased level of information that remote sensing now makes available also allows more complex scientific questions to be addressed. As defined for this book, remote sensing includes the vast array of geospatial data collected from land, water, ship, airborne and satellite platforms. The book is organized by technology, including: visible and infrared sensing using photographic, multispectral and hyperspectral instruments; active sensing using light detection and ranging (LiDAR); acoustic sensing using ship, autonomous underwater vehicle (AUV) and in-water platforms; and thermal and radar instruments. Emphasis and Audience This book serves multiple roles. It offers an overview of the current state-of-the-art technologies for reef mapping, provides detailed technical information for coral reef remote sensing specialists, imparts insight on the scientific questions that can be tackled using this technology, and also includes a foundation for those new to reef remote sensing. The individual sections of the book include introductory overviews of four main types of remotely sensed data used to study coral reefs, followed by specific examples demonstrating practical applications of the different technologies being discussed. Guidelines for selecting the most appropriate sensor for particular applications are provided, including an overview of how to utilize remote sensing data as an effective tool in science and management. The text is richly illustrated with examples of each sensing technology applied to a range of scientific, monitoring and management questions in reefs around the world. As such, the book is broadly accessible to a general audience, as well as students, managers, remote sensing specialists and anyone else working with coral reef ecosystems.

LASIE

ICMCCA 2012 is the first International Conference on Multimedia Processing, Communication and Computing Applications and the theme of the Conference is chosen as 'Multimedia Processing and its

Applications'. Multimedia processing has been an active research area contributing in many frontiers of today's science and technology. This book presents peer-reviewed quality papers on multimedia processing, which covers a very broad area of science and technology. The prime objective of the book is to familiarize readers with the latest scientific developments that are taking place in various fields of multimedia processing and is widely used in many disciplines such as Medical Diagnosis, Digital Forensic, Object Recognition, Image and Video Analysis, Robotics, Military, Automotive Industries, Surveillance and Security, Quality Inspection, etc. The book will assist the research community to get the insight of the overlapping works which are being carried out across the globe at many medical hospitals and institutions, defense labs, forensic labs, academic institutions, IT companies and security & surveillance domains. It also discusses latest state-of-the-art research problems and techniques and helps to encourage, motivate and introduce the budding researchers to a larger domain of multimedia.

Plastic Surger: 6 Volume Set - E-Book

This book gathers the refereed proceedings of the Artificial Intelligence and Bioinspired Computational Methods Section of the 9th Computer Science On-line Conference 2020 (CSOC 2020), held on-line in April 2020. Artificial intelligence and bioinspired computational methods now represent crucial areas of computer science research. The topics presented here reflect the current discussion on cutting-edge hybrid and bioinspired algorithms and their applications.

Medical Imaging Systems

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Art Libraries Journal

The most comprehensive, practical introduction yet! Everything managers need to know to make groupware work for their organizations. This book is required reading for anyone involved with the planning and development of their organization's collaborative computing systems. It provides executives, organizational planners, and departmental managers with a straightforward introduction to the concepts, terminology, and technologies of groupware and explores the many strategic advantages that groupware, workflow, and workgroup computing have to offer virtually any type of organization or enterprise. At the same time, it arms systems administrators and developers with proven approaches to groupware system design, and offers expert guidance on how to tailor versatile, cost-efficient groupware systems to the varying needs of the groups they serve: * The most timely, comprehensive review of the full range of groupware options currently in print * Covers everything from e-mail, client/server and workflow systems, to electronic meetings and electronic coauthoring * Includes examples that vividly demonstrate how groupware can work for any type of organization or enterprise: * Shows organizations how groupware meets their business process reengineering needs * Critically reviews a wide range of products currently available on the market

Coral Reef Remote Sensing

It is almost 120 years since Alzheimer's disease (AD) was first reported, and the concept of modifiable risk factors associated with the disease has been present from the outset. Thus, the idea of preventing AD is not new, with reference to strategies noted as early as the 1990s. This subfield of AD research has matured in recent years, with the number of modifiable risk factors – the AD preventome – rising from the 7 initially identified to the current 12, with an estimated contribution to dementia cases worldwide of about 40%. This book, the Handbook of Prevention and Alzheimer's Disease, introduces physicians, scientists, and other stakeholders to this subfield of AD research. It investigates the AD preventome, which will continue to expand as the understanding of new factors and related biomarkers is refined. Optimizing this preventome leads to an improvement in overall brain health, an outcome which reduces the risk of developing AD and improves quality of life. The book goes on to examine other domains of prevention, from vascular risk factors to social engagement and from sleep health to spirituality. If the journey to end AD can be likened to a long and arduous challenge, understanding every possible part of the overall toolkit of approaches for disease prevention and intervention is essential. Together with its companion volume on intervention, the book provides a comprehensive overview of strategies for tackling Alzheimer's disease, and will be of interest to all those working in the field. Cover illustration: White matter tracts showing sex differences in connectivity in men versus women

as a function of increasing body mass index. Reprinted with permission from Rahmani F, Wang Q, McKay NS, Keefe S, Hantler N, Hornbeck R, Wang Y, Hassenstab J, Schindler S, Xiong C, Morris JC, Benzinger TLS, Raji CA. Sex-Specific Patterns of Body Mass Index Relationship with White Matter Connectivity. J Alzheimers Dis. 2022;86(4):1831-1848. doi: 10.3233/JAD-215329. PMID: 35180116; PMCID: PMC9108572.

Machine Learning and Decision Support in Stroke

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it’s practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

Multimedia Processing, Communication and Computing Applications

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Artificial Intelligence and Bioinspired Computational Methods

This book covers recent advances in artificial intelligence, smart computing, and their applications in augmenting medical and health care systems. It will serve as an ideal reference text for graduate students and academic researchers in diverse engineering fields including electrical, electronics and communication, computer, and biomedical. This book: Presents architecture, characteristics, and applications of artificial intelligence and smart computing in health care systems Highlights privacy issues faced in health care and health informatics using artificial intelligence and smart computing technologies Discusses nature-inspired computing algorithms for the brain-computer interface Covers graph neural network application in the medical domain Provides insights into the state-of-the-art artificial intelligence and smart computing enabling and emerging technologies This book discusses recent advances and applications of artificial intelligence and smart technologies in the field of healthcare. It highlights privacy issues faced in health care and health informatics using artificial intelligence and smart computing technologies. It covers nature-inspired computing algorithms such as genetic algorithms, particle swarm optimization algorithms, and common scrambling algorithms to study brain-computer interfaces. It will serve as an ideal reference text for graduate students and academic researchers in the fields of electrical engineering, electronics and communication engineering, computer engineering, and biomedical engineering.

PC Mag

A guide to principles and methods for the management, archiving, sharing, and citing of linguistic research data, especially digital data. "Doing language science" depends on collecting, transcribing, annotating, analyzing, storing, and sharing linguistic research data. This volume offers a guide to linguistic data management, engaging with current trends toward the transformation of linguistics into a more data-driven and reproducible scientific endeavor. It offers both principles and methods, presenting the conceptual foundations of linguistic data management and a series of case studies, each of which demonstrates a concrete application of abstract principles in a current practice. In part 1, contributors bring together knowledge from information science, archiving, and data stewardship relevant to linguistic data management. Topics covered include implementation principles, archiving data, finding and using datasets, and the valuation of time and effort involved in data management. Part 2 presents snapshots of practices across various subfields, with each chapter presenting a unique data management project with generalizable guidance for researchers. The Open Handbook of Linguistic Data Management is an essential addition to the toolkit of every linguist, guiding researchers toward making their data FAIR: Findable, Accessible, Interoperable, and Reusable.

Introduction to Groupware, Workflow, and Workgroup Computing

At the heart of every medical imaging technology is a sophisticated mathematical model of the measurement process and an algorithm to reconstruct an image from the measured data. This book provides a firm foundation in the mathematical tools used to model the measurements and derive the reconstruction algorithms used in most of these modalities. The text uses X-ray computed tomography

(X-ray CT) as a 'pedagogical machine' to illustrate important ideas and its extensive discussion of background material makes the more advanced mathematical topics accessible to people with a less formal mathematical education. This new edition contains a chapter on magnetic resonance imaging (MRI), a revised section on the relationship between the continuum and discrete Fourier transforms, an improved description of the gridding method, and new sections on both Grangreat's formula and noise analysis in MR-imaging. Mathematical concepts are illuminated with over 200 illustrations and numerous exercises.

Handbook of Prevention and Alzheimer’s Disease

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Popular Mechanics

This two-volume set LNCS 13069-13070 constitutes selected papers presented at the First CAAI International Conference on Artificial Intelligence, held in Hangzhou, China, in June 2021. Due to the COVID-19 pandemic the conference was partially held online. The 105 papers were thoroughly reviewed and selected from 307 qualified submissions. The papers are organized in topical sections on applications of AI; computer vision; data mining; explainability, understandability, and verifiability of AI; machine learning; natural language processing; robotics; and other AI related topics.

Computerworld

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Computational Intelligence Aided Systems for Healthcare Domain

This book constitutes the refereed proceedings of the International Conference on Computer Vision and Graphics, ICCVG 2014, held in Warsaw, Poland, in September 2014. The 81 full papers presented were carefully reviewed and selected from various submissions. They cover various important aspects of computer vision and graphics.

The Open Handbook of Linguistic Data Management

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

Introduction to the Mathematics of Medical Imaging

InfoWorld is targeted to Senior IT professionals. Content is segmented into Channels and Topic Centers. InfoWorld also celebrates people, companies, and projects.

Popular Science

The magazine that helps career moms balance their personal and professional lives.

Artificial Intelligence

The Getty Research Journal showcases the remarkable original research underway at the Getty. Articles explore the rich collections of the J. Paul Getty Museum and Research Institute, as well as the Research Institute's research projects and annual theme of its scholar program. Shorter texts highlight new acquisitions and discoveries in the collections, and focus on the diverse tools for scholarship being developed at the Research Institute. This issue includes essays by Scott Allan, Adriano Amendola, Valérie Bajou, Alessia Frassani, Alden R. Gordon, Natilee Harren, Sigrid Hofer, Christopher R. Lakey, Vimalin Rujivacharakul, and David Saunders; the short texts examine a Nuremberg festival book, translations of a seventeenth-century rhyming inventory, the print innovations of Maria Sibylla Merian, Karl Schneider's Sears designs, Clement Greenberg's copy of T. S. Eliot's The Waste Land, the Marcia

Tucker papers, a mail art project by William Pope.L, the L.A. Art Girls' reinvention of Allan Kaprow's Fluids, and Jennifer Bornstein's investigations into the archives of women performance artists.

Popular Science

Computer Vision and Graphics