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KEY=SIEMENS - ROWAN KOCH

GLOBAL CYBER SECURITY LABOR SHORTAGE AND INTERNATIONAL BUSINESS RISK

IGI Global Global events involving cybersecurity breaches have highlighted the ever-growing dependence on interconnected online systems in international business. The increasing societal dependence on information technology has pushed cybersecurity to the forefront as one of the most urgent challenges facing the global community today. Poor cybersecurity is the primary reason hackers are able to penetrate safeguards in business computers and other networks, and the growing global skills gap in cybersecurity simply exacerbates the problem. Global Cyber Security Labor Shortage and International Business Risk provides emerging research exploring the theoretical and practical aspects of protecting computer systems against online threats as well as transformative business models to ensure sustainability and longevity. Featuring coverage on a broad range of topics such as cybercrime, technology security training, and labor market understanding, this book is ideally designed for professionals, managers, IT consultants, programmers, academicians, and students seeking current research on cyber security's influence on business, education, and social networks.

ADWEEK

MULTIMEDIA COMMUNICATIONS

Springer Science & Business Media Multimedia Communications is at the core of the advanced interactive services that make up today's Information Society. Videoconferencing, teleworking, teleshopping and video-on-demand will benefit from developments in broadband and mobile telecommunication systems, intelligent multimedia terminals and digital signal processing. The latest research findings from these fields are presented here in the proceedings of the 10th Tyrrhenian Workshop on Digital Communications, held in Ischia, Italy, September 19 98. Focus is placed on the following four areas: Signal Processing for Multimedia Communications. Modeling, Analysis and Simulation of Multimedia Traffic Sources. Access Techniques. Multimode Multimedia Terminals. In particular, multimedia services and applications are presented. This comprehensive collection of papers will enable the reader to keep pace with the rapid changes that are taking place in this field. Experts have co-operated with top research centers worldwide, on an academic and industrial level, to make this an up-to-date reference volume for all those who are concerned with technological advances in Multimedia Distributed Systems.

OFFICIAL GAZETTE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRADEMARKS

101 COOL SMARTPHONE TECHNIQUES

COVERS SERIES 60 PHONES FROM NOKIA, SAMSUNG, SIEMENS, PANASONIC, SENDO, AND MORE!

Wiley Here's how to get as smart as your phone Your Series 60 smartphone is one really cool gadget. Here's how to take advantage of 101 reasons why they call it "smart." This is no boring user's manual, but the key that unlocks tricks you never guessed your phone could do. Find out how to blacklist unwanted calls, set your camera features on "fast draw" so you never miss a shot, create your own ringtones, send video, encrypt data on your phone, install and remove software, and so much more. Get expert advice on buying a smartphone, configuring it, and transferring data from your old phone Send automatic text message responses to callers Replace your phone's wallpaper with your own images Create an e-book you can read on your phone Quickly locate files and multimedia Super-size your caller ID Use shortcuts to fast-forward, rewind, or play back voodoo Connect to your PC via Bluetooth or infrared technology Lock your memory card and back up data stored there or in your phone memory Open Zip files on your phone

PC MAG

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.

CHANGE COMMUNICATIONS JAHRBUCH 2010

Springer-Verlag Das Jahrbuch bietet mit aktuellen Best-Practice-Projekten Einblick in Unternehmensaktivitäten rund um das Thema Veränderungskommunikation. Change Communication (Cultural Change, Internal Branding) kommt immer dann zum Einsatz, wenn in einem Unternehmen bzw. einer Organisation Veränderungen erfolgreich umgesetzt werden sollen. Die zehn Projekte wurden mit dem Change Communications Award prämiert, der 2009 erstmals vergeben wurde. Sie wurden von einer international besetzten Jury ausgewählt und offenbaren Erfolgsgeheimnisse namhafter Unternehmen.

SIEMENS NX EXERCISES

200 PRACTICE DRAWINGS FOR NX AND OTHER FEATURE-BASED MODELING SOFTWARE

Independently Published SIEMENS NX EXERCISES Do you want to learn how to design 2D and 3D models in your favorite Computer Aided Design (CAD) software such as NX or SolidWorks? Look no further. We have designed 200 CAD exercises that will help you to test your CAD skills. What's included in the SIEMENS NX EXERCISES book? Whether you are a beginner, intermediate, or an expert, these CAD exercises will challenge you. The book contains 200 3D models and practice drawings or exercises. *Each exercise contains images of the final design and exact measurements needed to create the design. *Each exercise can be designed on any CAD software which you desire. It can be done with AutoCAD, SolidWorks, Inventor, DraftSight, Fusion 360, Solid Edge, Catia, PTC Creo and other feature-based CAD modeling software. *It is intended to provide Drafters, Designers and Engineers with enough CAD exercises for practice on NX. *It includes almost all types of exercises that are necessary to provide, clear, concise and systematic information required on industrial machine part drawings. *Third Angle Projection is intentionally used to familiarize Drafters, Designers and Engineers in Third Angle Projection to meet the expectation of worldwide Engineering drawing print. *This book is for Beginner, Intermediate and Advance CAD users. *Clear and well drafted drawing help easy understanding of the design. *These exercises are from Basics to Advance level. *Each exercises can be assigned and designed separately. *No Exercise is a prerequisite for another. All dimensions are in mm. Prerequisite To design & develop models, you should have knowledge of NX. Student should have knowledge of Orthographic views and projections. Student should have basic knowledge of engineering drawings.

WINDOWS? 2000 SECRETS?

Wiley Windows 2000 Secrets is the ultimate resource guide for accessing hidden techniques and undocumented features within Windows 2000. With over 800 pages, plus a bonus CD-ROM on how to boost productivity within this revolutionary new operating system, Windows 2000 Secrets provides eye-opening step-by-step procedures, insider advice, and time saving to help the advanced user address the following topics. . . Dual-boot systems Plug-and-play Power management features Internet connectivity Advanced control panel techniques Security and performance management with MMC snap-ins Connecting to a Windows, UNIX, or Novell network

SIEMENS SOLID EDGE EXERCISES

200 PRACTICE DRAWINGS FOR SOLID EDGE AND OTHER FEATURE-BASED MODELING SOFTWARE

Independently Published SIEMENS SOLID EDGE EXERCISES Do you want to learn how to design 2D and 3D models in your favorite Computer Aided Design (CAD) software such as SOLID EDGE or SolidWorks? Look no further. We have designed 200 CAD exercises that will help you to test your CAD skills. What's included in the SIEMENS SOLID EDGE EXERCISES book? Whether you are a beginner, intermediate, or an expert, these CAD exercises will challenge you. The book contains 200 3D models and practice drawings or exercises. *Each exercise contains images of the final design and exact measurements needed to create the design. *Each exercise can be designed on any CAD software which you desire. It can be done with AutoCAD, SolidWorks, Inventor, DraftSight, Creo, Fusion 360, Catia, NX and other feature-based CAD modeling software. *It is intended to provide Drafters, Designers and Engineers with enough CAD exercises for practice on SOLID EDGE. *It includes almost all types of exercises that are necessary to provide, clear, concise and systematic information required on industrial machine part drawings. *Third Angle Projection is intentionally used to familiarize Drafters, Designers and Engineers in Third Angle Projection to meet the expectation of worldwide Engineering drawing print. *This book is for Beginner, Intermediate and Advance CAD users. *Clear and well drafted drawing help easy understanding of the design. *These exercises are from Basics to Advance level. *Each exercises can be assigned and designed separately. *No Exercise is a prerequisite for another. All dimensions are in mm. Prerequisite To design & develop models, you should have knowledge of SOLID EDGE. Student should have knowledge of Orthographic views and projections. Student should have basic knowledge of engineering drawings.

AN ASSESSMENT OF THE IMAGING PERFORMANCE OF THE SIEMENS MAGNETOM VISISON 1.5T MR IMAGING SYSTEM

AN ASSESSMENT OF THE IMAGING PERFORMANCE OF THE SIEMENS MAGNETOM IMPACT EXPERT 1.0 MR IMAGING SYSTEM

DESIGNING WEB NAVIGATION

OPTIMIZING THE USER EXPERIENCE

"O'Reilly Media, Inc." Thoroughly rewritten for today's web environment, this bestselling book offers a fresh look at a fundamental topic of web site development: navigation design. Amid all the changes to the Web in the past decade, and all the hype about Web 2.0 and various "rich" interactive technologies, the basic problems of creating a good web navigation system remain. Designing Web Navigation demonstrates that good navigation is not about technology-it's about the ways people find information, and how you guide them. Ideal for beginning to intermediate web designers, managers, other non-designers, and web development pros looking for another perspective, Designing Web Navigation offers basic design principles, development techniques and practical advice, with real-world examples and essential concepts seamlessly folded in. How does your web site serve your business objectives? How does it meet a user's needs? You'll learn that navigation design touches most other aspects of web site development. This book: Provides the foundations of web navigation and offers a framework for navigation design Paints a broad picture of web navigation and basic human information behavior Demonstrates how navigation reflects brand and affects site credibility Helps you understand the problem you're trying to solve before you set out to design Thoroughly reviews the mechanisms and different types of navigation Explores "information scent" and "information shape" Explains "persuasive" architecture and other design concepts Covers special contexts, such as navigation design for web applications Includes an entire chapter on tagging While Designing Web Navigation focuses on creating navigation systems for large, information-rich sites serving a business purpose, the principles and techniques in the book also apply to small sites. Well researched and cited, this book serves as an excellent reference on the topic, as well as a superb teaching guide. Each chapter ends with suggested reading and a set of questions that offer exercises for experiencing the concepts in action.

PC MAGAZINE

THE INDEPENDENT GUIDE TO IBM-STANDARD PERSONAL COMPUTING

OFFICIAL GAZETTE OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENTS

FROM IMAGES AND TECHNICAL DRAWINGS TO 3D MODELS: A NOVEL APPROACH TO AS-BUILT RECONSTRUCTION

ibidem-Verlag / ibidem Press Marker-based photogrammetric as-built reconstruction is a well established method to capture industrial sites. However, to reduce costs and to accelerate the reconstruction procedure, there is an increasing demand for marker-free reconstruction methods. Aiming to eliminate the need for markers, we present a novel approach to as-built reconstruction, which integrates technical drawings as orthographic images seamlessly into the photogrammetric reconstruction process. We introduce a new type of image, the so called co-registered orthographic and perspective (COP) image, which consists of an orthographic view integrated into a perspective view. Metric measurements and reconstruction are possible using only a single COP image. We discuss epipolar geometry for this type of image and we provide orientation and reconstruction methods custom tailored to COP images for points, lines, and cylindrical objects. Multiple examples of application in industrial environment show the practical applicability of the presented methods and confirm that the requirements for accuracy in typical applications can well be met.

DEEP NETWORK DESIGN FOR MEDICAL IMAGE COMPUTING

PRINCIPLES AND APPLICATIONS

Academic Press Deep Network Design for Medical Image Computing: Principles and Applications covers a range of MIC tasks and discusses design principles of these tasks for deep learning approaches in medicine. These include skin disease classification, vertebrae identification and localization, cardiac ultrasound image segmentation, 2D/3D medical image registration for intervention, metal artifact reduction, sparse-view artifact reduction, etc. For each topic, the book provides a deep learning-based solution that takes into account the medical or biological aspect of the problem and how the solution addresses a variety of important questions surrounding architecture, the design of deep learning techniques, when to introduce adversarial learning, and more. This book will help graduate students and researchers develop a better understanding of the deep learning design principles for MIC and to apply them to their medical problems. Explains design principles of deep learning techniques for MIC Contains cutting-edge deep learning research on MIC Covers a broad range of MIC tasks, including the classification, detection, segmentation, registration, reconstruction and synthesis of medical images

MEDICAL DEVICE REGISTER

Contains a list of all manufacturers and other specified processors of medical devices registered with the Food and Drug Administration, and permitted to do business in the U.S., with addresses and telephone numbers. Organized by FDA medical device name, in alphabetical order. Keyword index to FDA established standard names of medical devices.

COMPUTER ASSISTED RADIOLOGY / COMPUTERGESTÜTZTE RADIOLOGIE

CAR '91 COMPUTER ASSISTED RADIOLOGY

Springer Science & Business Media CAR is a symposium and exhibition covering the impact of computer and communication systems applied to radiology and other medical disciplines, which use digital imaging for diagnosis and therapy planning. CAR '91 also provides tutorials, but more emphasis is given to a broad variety of specific problems related to medical/technical issues in digital imaging. This is achieved through in-depth presentations of results of current medical imaging projects on a worldwide basis.

HANDBOOK OF MEDICAL IMAGE COMPUTING AND COMPUTER ASSISTED INTERVENTION

Academic Press Handbook of Medical Image Computing and Computer Assisted Intervention presents important advanced methods and state-of-the-art research in medical image computing and computer assisted intervention, providing a comprehensive reference on current technical approaches and solutions, while also offering proven algorithms for a variety of essential medical imaging applications. This book is written primarily for university researchers, graduate students and professional practitioners (assuming an elementary level of linear algebra, probability and statistics, and signal processing) working on medical image computing and computer assisted intervention. Presents the key research challenges in medical image computing and computer-assisted intervention Written by leading authorities of the Medical Image Computing and Computer Assisted Intervention (MICCAI) Society Contains state-of-the-art technical approaches to key challenges Demonstrates proven algorithms for a whole range of essential medical imaging applications Includes source codes for use in a plug-and-play manner Embraces future directions in the fields of medical image computing and computer-assisted intervention

COMPUTED TOMOGRAPHY TECHNOLOGY

W.B. Saunders Company

SPLIT-FILTER DUAL-ENERGY CT

INVESTIGATION OF TUMOR VISIBILITY, SPECTRAL SEPARATION, AND DOSE ALLOCATION

Split-filter dual-energy computed tomography (DECT) has recently been implemented for clinical use as an added feature to the Siemens SOMATOM Definition Edge CT scanner. This split-filter technique is referred to as TwinBeam (Siemens Healthcare, Forchheim, Germany). TwinBeam is a novel modality performed with an x-ray source operated at 120 kVp and a removable split-filter made of adjacent 0.05 mm of gold and 0.6 mm of tin. This dissertation explores the use of TwinBeam for imaging pancreas and liver tumors for radiation therapy applications. This dissertation also compares the new split-filter system to other DECT modalities based on spectral separation and dose allocation. Accurate tumor delineation is crucial for stereotactic body radiation therapy. Unfortunately, tumor delineation using conventional single-energy CT (SECT) images can be a challenge for pancreatic adenocarcinomas and liver tumors where contrast between the tumor and surrounding healthy tissue is low. The first part of this work investigates the utility of TwinBeam to improve pancreas and liver tumor visibility as quantified by contrast and contrast-to-noise-ratio (CNR) for radiation therapy applications. The visibility of pancreatic adenocarcinomas was found to substantially increase with TwinBeam virtual monoenergetic images (VMIs), while the increase in visibility of liver tumors was not universal but was observed for certain patients. The investigation of other dual-energy images, including relative electron density and effective atomic number images, were also explored for tumor delineation. The difference between tumor and healthy tissue based on these images varied by tumor location but still provided additional information to complement VMIs and aid in tumor delineation. The accuracy of TwinBeam iodine-enhanced images was investigated and used to quantify the iodine concentration within pancreas and liver tumors and surrounding healthy tissue during bi-phasic imaging for radiation therapy simulation. The accuracy was found to be dependent on patient size; therefore, a methodology to determine the iodine concentration within 3D contours from patient datasets was established. First order texture analysis was also performed using TwinBeam VMIs and analyzed as a function of reconstruction energy. Mean CT number and standard deviation increased with decreasing energy for virtual monoenergetic images (VMIs), while skewness and kurtosis were seen to be stable and did not change as a function of reconstructed energy. A subjective contouring study with split-filter DECT images was performed to investigate the current implementation of TwinBeam for delineating pancreas and liver tumors for radiation therapy applications. Three contouring sessions were conducted several days apart. Four clinicians were asked to contour the pancreas or liver gross target volume (GTV) on one of three different TwinBeam DECT images (VMI, iodine-enhanced, or virtual SECT image). Tumor conspicuity, tumor edge sharpness, contouring confidence, and image quality were also scored on a five-point scale. The GTVs were compared using Jaccard

coefficient (JC), Dice similarity coefficient (DSC), Hausdorff distance (HD), and overall volume. Tumor edge sharpness score negatively correlated with HD for both the pancreas and liver cases. The intra-clinician and inter-clinician variability were analyzed across the different image types. For some pancreas and liver cases, the TwinBeam VMIs decreased the variability of the GTVs compared to the virtual SECT image. Monte Carlo models of split-filter DECT with peak tube voltages of 120kVp and 140 kVp were developed based on measurement of half-value layer and beam profile from the Siemens SOMATOM Definition Edge scanner. These two models were used to characterize split-filter DECT based on spectral separation and dose allocation and to investigate the potential benefits of increased tube voltage. Overall, the spectral separation increased with peak tube voltage, and dose allocation was unchanged with increased tube voltage for larger phantom sizes. The impact of the spectral differences caused by the split-filter on CT dosimetry was also investigated; the energy dependence across the beam was found to vary with ionization chambers used for CT dosimetry.

THE ART OF WRITING EFFICIENT PROGRAMS

AN ADVANCED PROGRAMMER'S GUIDE TO EFFICIENT HARDWARE UTILIZATION AND COMPILER OPTIMIZATIONS USING C++ EXAMPLES

Packt Publishing Ltd Become a better programmer with performance improvement techniques such as concurrency, lock-free programming, atomic operations, parallelism, and memory management Key Features Learn proven techniques from a heavyweight and recognized expert in C++ and high-performance computing Understand the limitations of modern CPUs and their performance impact Find out how you can avoid writing inefficient code and get the best optimizations from the compiler Learn the tradeoffs and costs of writing high-performance programs Book Description The great free lunch of "performance taking care of itself" is over. Until recently, programs got faster by themselves as CPUs were upgraded, but that doesn't happen anymore. The clock frequency of new processors has almost peaked, and while new architectures provide small improvements to existing programs, this only helps slightly. To write efficient software, you now have to know how to program by making good use of the available computing resources, and this book will teach you how to do that. The Art of Efficient Programming covers all the major aspects of writing efficient programs, such as using CPU resources and memory efficiently, avoiding unnecessary computations, measuring performance, and how to put concurrency and multithreading to good use. You'll also learn about compiler optimizations and how to use the programming language (C++) more efficiently. Finally, you'll understand how design decisions impact performance. By the end of this book, you'll not only have enough knowledge of processors and compilers to write efficient programs, but you'll also be able to understand which techniques to use and what to measure while improving performance. At its core, this book is about learning how to learn. What you will learn Discover how to use the hardware computing resources in your programs effectively Understand the relationship between memory order and memory barriers Familiarize yourself with the performance implications of different data structures and organizations Assess the performance impact of concurrent memory accessed and how to minimize it Discover when to use and when not to use lock-free programming techniques Explore different ways to improve the effectiveness of compiler optimizations Design APIs for concurrent data structures and high-performance data structures to avoid inefficiencies Who this book is for This book is for experienced developers and programmers who work on performance-critical projects and want to learn new techniques to improve the performance of their code. Programmers in algorithmic trading, gaming, bioinformatics, computational genomics, or computational fluid dynamics communities will get the most out of the examples in this book, but the techniques are fairly universal. Although this book uses the C++ language, the concepts demonstrated in the book can be easily transferred or applied to other compiled languages such as C, Java, Rust, Go, and more.

CNC 50 HOUR PROGRAMMING COURSE

FOR LATHES, ISO STANDARD FUNCTIONS, SIEMENS FIXED CYCLES, PARAMETRIC PROGRAMMING, METHODS OF USE

Createspace Independent Pub This book is designed for students and teachers who are looking for a programming course based on ISO standard language, with a special focus on numerically controlled lathes and in combination with a software able to reproduce a real NC on the computer and to perform a graphic simulation of the program created. The course, which is centered on a three-axis lathe (X, Z, C) with driven tools, is subdivided into 50 course hours. The license for the free use of the training and graphic simulation software, which may be downloaded from the Internet according to the instructions provided in the book, has a validity of sixty days. The total number of hours necessary for its completion will always be specified at the beginning of each chapter. This will allow the user to select the topics to be covered based on available time and to assess progress achieved by completion of the exercises within set timeframes. All the programs used during the explanations and the collection of the images contained in the book, which may be printed, viewed or displayed during the course at home or in the classroom may be downloaded from the website: cncwebschool.com. At the end of the course, the concepts applied to the programming of the lathe will be used to program a three-axis vertical mill (X, Y, Z). Finally, the book contains a list of technical terms and their translation from English into Italian and German.

INFORMATION SYSTEMS TODAY

MANAGING IN THE DIGITAL WORLD

Prentice Hall For the undergraduate/graduate introductory information systems course required of all business students. Information Systems Today, 3e, speaks directly to WHY IS MATTERS today by focusing on what every business student needs to know about IS including its leading role in the globalization of business.

MEDICAL IMAGE RECOGNITION, SEGMENTATION AND PARSING

MACHINE LEARNING AND MULTIPLE OBJECT APPROACHES

Academic Press This book describes the technical problems and solutions for automatically recognizing and parsing a medical image into multiple objects, structures, or anatomies. It gives all the key methods, including state-of-the-art approaches based on machine learning, for recognizing or detecting, parsing or segmenting, a cohort of anatomical structures from a medical image. Written by top experts in Medical Imaging, this book is ideal for university researchers and industry practitioners in medical imaging who want a complete reference on key methods, algorithms and applications in medical image recognition, segmentation and parsing of multiple objects. Learn: Research challenges and problems in medical image recognition, segmentation and parsing of multiple objects Methods and theories for medical image recognition, segmentation and parsing of multiple objects Efficient and effective machine learning solutions based on big datasets Selected applications of medical image parsing using proven algorithms Provides a comprehensive overview of state-of-the-art research on medical image recognition, segmentation, and parsing of multiple objects Presents efficient and effective approaches based on machine learning paradigms to leverage the anatomical context in the medical images, best exemplified by large datasets Includes algorithms for recognizing and parsing of known anatomies for practical applications

WIDE AREA 2D/3D IMAGING

DEVELOPMENT, ANALYSIS AND APPLICATIONS

Springer Imaging technology is an important research area and it is widely utilized in a growing number of disciplines ranging from gaming, robotics and automation to medicine. In the last decade 3D imaging became popular mainly driven by the introduction of novel 3D cameras and measuring devices. These cameras are usually limited to indoor scenes with relatively low distances. Benjamin Langmann introduces medium and long-range 2D/3D cameras to overcome these limitations. He reports measurement results for these devices and studies their characteristic behavior. In order to facilitate the application of these cameras, common algorithms are adapted to the 2D/3D data and new approaches for standard computer vision tasks are introduced.

HOW TO CROWDFUND YOUR FILM

TIPS AND STRATEGIES FOR FILMMAKERS

Oldcastle Books Ltd Crowdfunding is a major source of funding for independent films and over \$250 million has been raised for films just on Kickstarter alone. This book will guide you through every stage of planning, creating and running your film crowdfunding campaign. This book is based on extensive data research and interviews which include: Data research on over 50,000 film crowdfunding campaigns Interviews with over 50 filmmakers who have run crowdfunding campaigns Interviews with some of the top people at major crowdfunding platforms and services Praise for Stephen Follows 'Stephen drills down on data to discover truths about the film industry. Totally worth a read' - Ted Hope, Head of Production, Amazon Original Movies 'Stephen's research is brilliant. No-one is doing data-driven analysis of the film industry quite like Stephen Follows. His detailed research and reporting about the film industry is unique and invaluable' - Jonathan Wolf, Head of The American Film Market 'Stephen is one of the most gifted producers I know. His mind operates at an entirely different speed to almost everyone I know, solving problems, offering solutions and innovating new opportunities at breakneck speed' - Chris Jones, author of The Guerrilla Filmmakers Handbook Please note that this is a fixed-format ebook file.

FUN WITH SYMBIAN + CD

Elex Media Komputindo

VISION MODELS FOR HIGH DYNAMIC RANGE AND WIDE COLOUR GAMUT IMAGING

TECHNIQUES AND APPLICATIONS

Academic Press To enhance the overall viewing experience (for cinema, TV, games, AR/VR) the media industry is continuously striving to improve image quality. Currently the emphasis is on High Dynamic Range (HDR) and Wide Colour Gamut (WCG) technologies, which yield images with greater contrast and more vivid colours. The uptake of these technologies, however, has been hampered by the significant challenge of understanding the science behind visual perception. Vision Models for High Dynamic Range and Wide

Colour Gamut Imaging provides university researchers and graduate students in computer science, computer engineering, vision science, as well as industry R&D engineers, an insight into the science and methods for HDR and WCG. It presents the underlying principles and latest practical methods in a detailed and accessible way, highlighting how the use of vision models is a key element of all state-of-the-art methods for these emerging technologies. Presents the underlying vision science principles and models that are essential to the emerging technologies of HDR and WCG Explores state-of-the-art techniques for tone and gamut mapping Discusses open challenges and future directions of HDR and WCG research

FIBER OPTICS WEEKLY UPDATE

Information Gatekeepers Inc

HUMAN EAR RECOGNITION BY COMPUTER

Springer Science & Business Media At the frontier of research, this book offers complete coverage of human ear recognition. It explores all aspects of 3D ear recognition: representation, detection, recognition, indexing and performance prediction. It uses large datasets to quantify and compare the performance of various techniques. Features and topics include: Ear detection and recognition in 2D image; 3D object recognition and 3D biometrics; 3D ear recognition; Performance comparison and prediction.

ARTIFICIAL INTELLIGENCE FOR COMPUTATIONAL MODELING OF THE HEART

Academic Press Artificial Intelligence for Computational Modeling of the Heart presents recent research developments towards streamlined and automatic estimation of the digital twin of a patient's heart by combining computational modeling of heart physiology and artificial intelligence. The book first introduces the major aspects of multi-scale modeling of the heart, along with the compromises needed to achieve subject-specific simulations. Reader will then learn how AI technologies can unlock robust estimations of cardiac anatomy, obtain meta-models for real-time biophysical computations, and estimate model parameters from routine clinical data. Concepts are all illustrated through concrete clinical applications. Presents recent advances in computational modeling of heart function and artificial intelligence technologies for subject-specific applications Discusses AI-based technologies for robust anatomical modeling from medical images, data-driven reduction of multi-scale cardiac models, and estimations of physiological parameters from clinical data Illustrates the technology through concrete clinical applications and discusses potential impacts and next steps needed for clinical translation

PROCESS ANALYTICS

CONCEPTS AND TECHNIQUES FOR QUERYING AND ANALYZING PROCESS DATA

Springer This book starts with an introduction to process modeling and process paradigms, then explains how to query and analyze process models, and how to analyze the process execution data. In this way, readers receive a comprehensive overview of what is needed to identify, understand and improve business processes. The book chiefly focuses on concepts, techniques and methods. It covers a large body of knowledge on process analytics - including process data querying, analysis, matching and correlating process data and models - to help practitioners and researchers understand the underlying concepts, problems, methods, tools and techniques involved in modern process analytics. Following an introduction to basic business process and process analytics concepts, it describes the state of the art in this area before examining different analytics techniques in detail. In this regard, the book covers analytics over different levels of process abstractions, from process execution data and methods for linking and correlating process execution data, to inferring process models, querying process execution data and process models, and scalable process data analytics methods. In addition, it provides a review of commercial process analytics tools and their practical applications. The book is intended for a broad readership interested in business process management and process analytics. It provides researchers with an introduction to these fields by comprehensively classifying the current state of research, by describing in-depth techniques and methods, and by highlighting future research directions. Lecturers will find a wealth of material to choose from for a variety of courses, ranging from undergraduate courses in business process management to graduate courses in business process analytics. Lastly, it offers professionals a reference guide to the state of the art in commercial tools and techniques, complemented by many real-world use case scenarios.

CAPITALIST NIGGER

THE ROAD TO SUCCESS - A SPIDER WEB DOCTRINE

Jonathan Ball Publishers Capitalist Nigger is an explosive and jarring indictment of the black race. The book asserts that the Negroid race, as naturally endowed as any other, is culpably a non-productive race, a consumer race that depends on other communities for its culture, its language, its feeding and its clothing. Despite enormous natural resources, blacks are economic slaves because they lack the 'devil-may-care' attitude and the 'killer instinct' of the Caucasian, as well as the spider web mentality of the Asian. A Capitalist Nigger must embody ruthlessness in pursuit of excellence in his drive towards achieving the goal of becoming an economic warrior. In putting forward the idea of the Capitalist Nigger, Chika Onyeani charts a road to success whereby black economic warriors employ the 'Spider Web Doctrine' - discipline, self-reliance, ruthlessness - to escape from their victim mentality. Born in Nigeria, Chika Onyeani is a journalist, editor and former diplomat.

THE NEW YORK TIMES INDEX

PERSON RE-IDENTIFICATION WITH LIMITED SUPERVISION

Morgan & Claypool Publishers Person re-identification is the problem of associating observations of targets in different non-overlapping cameras. Most of the existing learning-based methods have resulted in improved performance on standard re-identification benchmarks, but at the cost of time-consuming and tediously labeled data. Motivated by this, learning person re-identification models with limited to no supervision has drawn a great deal of attention in recent years. In this book, we provide an overview of some of the literature in person re-identification, and then move on to focus on some specific problems in the context of person re-identification with limited supervision in multi-camera environments. We expect this to lead to interesting problems for researchers to consider in the future, beyond the conventional fully supervised setup that has been the framework for a lot of work in person re-identification. Chapter 1 starts with an overview of the problems in person re-identification and the major research directions. We provide an overview of the prior works that align most closely with the limited supervision theme of this book. Chapter 2 demonstrates how global camera network constraints in the form of consistency can be utilized for improving the accuracy of camera pair-wise person re-identification models and also selecting a minimal subset of image pairs for labeling without compromising accuracy. Chapter 3 presents two methods that hold the potential for developing highly scalable systems for video person re-identification with limited supervision. In the one-shot setting where only one tracklet per identity is labeled, the objective is to utilize this small labeled set along with a larger unlabeled set of tracklets to obtain a re-identification model. Another setting is completely unsupervised without requiring any identity labels. The temporal consistency in the videos allows us to infer about matching objects across the cameras with higher confidence, even with limited to no supervision. Chapter 4 investigates person re-identification in dynamic camera networks. Specifically, we consider a novel problem that has received very little attention in the community but is critically important for many applications where a new camera is added to an existing group observing a set of targets. We propose two possible solutions for on-boarding new camera(s) dynamically to an existing network using transfer learning with limited additional supervision. Finally, Chapter 5 concludes the book by highlighting the major directions for future research.

WORKFLOW AUTOMATION

BASIC CONCEPTS OF WORKFLOW AUTOMATION IN THE GRAPHIC INDUSTRY

Springer Nature This book describes basic concepts of workflow automation in the graphic industry. There are three main chapters: Scope of Workflows in the Printing Industry, Production Models, and Metadata Formats. The book does not describe the individual business and production steps for manufacturing a print product. Rather, it describes what kinds of data exchanges are required between management software and devices to make the automatic execution of processes possible. Primary audience is students studying graphic arts technology, practitioners at printing and manufacturing companies, and computer scientists who are interested in workflow-related matters. It is presupposed that the reader is familiar with the basic procedures in the printing industry as well with the fundamental concepts of IT technology.

THREE-DIMENSIONAL DIGITAL TOMOSYNTHESIS

ITERATIVE RECONSTRUCTION, ARTIFACT REDUCTION AND ALTERNATIVE ACQUISITION GEOMETRY

Springer Yulia Levakhina gives an introduction to the major challenges of image reconstruction in Digital Tomosynthesis (DT), particularly to the connection of the reconstruction problem with the incompleteness of the DT dataset. The author discusses the factors which cause the formation of limited angle artifacts and proposes how to account for them in order to improve image quality and axial resolution of modern DT. The addressed methods include a weighted non-linear back projection scheme for algebraic reconstruction and novel dual-axis acquisition geometry. All discussed algorithms and methods are supplemented by detailed illustrations, hints for practical implementation, pseudo-code, simulation results and real patient case examples.

THE TRANSFORMATION MYTH

LEADING YOUR ORGANIZATION THROUGH UNCERTAIN TIMES

MIT Press How companies can adapt in an era of continuous disruption: a guide to responding to such acute crises as COVID-19. When COVID-19 hit, businesses had to respond almost instantaneously--shifting employees to remote work, repairing broken supply chains, keeping pace with dramatically fluctuating customer demand. They were forced to

adapt to a confluence of multiple disruptions inextricably linked to a longer-term, ongoing digital disruption. This book shows that companies that use disruption as an opportunity for innovation emerge from it stronger. Companies that merely attempt to "weather the storm" until things go back to normal (or the next normal), on the other hand, miss an opportunity to thrive. The authors, all experts on business and technology strategy, show that transformation is not a one-and-done event, but a continuous process of adapting to a volatile and uncertain environment. Drawing on five years of research into digital disruption--including a series of interviews with business leaders conducted during the COVID-19 crisis--they offer a framework for understanding disruption and tools for navigating it. They outline the leadership traits, business principles, technological infrastructure, and organizational building blocks essential for adapting to disruption, with examples from real-world organizations. Technology, they remind readers, is not an end in itself, but enables the capabilities essential for surviving an uncertain future: nimbleness, scalability, stability, and optionality.