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International Commerce   Sep 23 2019
Image Sensors and Signal Processing for Digital Still Cameras   Aug 03 2020 Shrinking pixel sizes along with improvements in image sensors, optics, and electronics have elevated DSCs to levels of performance that match, and have the potential to surpass, that of silver-halide film cameras. Image Sensors and Signal Processing for Digital Still Cameras captures the current state of DSC image acquisition and signal processing technology and takes an all-inclusive look at the field, from the history of DSCs to future possibilities. The first chapter outlines the evolution of DSCs, their basic structure, and their major application classes. The next few chapters discuss high-quality optics that meet the requirements of better image sensors, the basic functions and performance parameters of image sensors, and detailed discussions of both CCD and CMOS image sensors. The book then discusses how color theory affects the uses of DSCs, presents basic image processing and camera control algorithms and examples of advanced image processing algorithms, explores the architecture and required performance of signal processing engines, and explains how to evaluate image quality for each component described. The book closes with a look at future technologies and the challenges that must be overcome to realize them. With contributions from many active DSC experts, Image Sensors and Image Processing for Digital Still Cameras offers unparalleled real-world coverage and opens wide the door for future innovation.
Camera and Input Scanner Systems   Jul 22 2019
The Automatic Picture Transmission (APT) TV Camera System for Meteorological Satellites   Nov 06 2020
NASA Technical Paper   Jan 20 2022
Introduction to Biomedical Engineering Technology   Oct 17 2021 This new edition provides major revisions to a text that is suitable for the introduction to biomedical engineering technology course offered in a number of technical institutes and colleges in Canada and the US. Each chapter has been thoroughly updated with new photos and illustrations which depict the most modern equipment available in medical technology. This third edition includes new problem sets and examples, detailed block diagrams and schematics and new chapters on device technologies and information technology.
Diagnostic Electron Microscopy   Jun 20 2019 Diagnostic Electron Microscopy: A Practical Guide to Interpretation and Technique summarises the current interpretational applications of TEM in diagnostic pathology. This concise and accessible volume provides a working guide to the main, or most useful, applications of the technique including practical topics of concern to laboratory scientists, brief guides to traditional tissue and microbiological preparation techniques, microwave processing, digital imaging and measurement uncertainty. The text features both a screening and interpretational guide for TEM diagnostic applications and current TEM diagnostic tissue preparation methods pertinent to all clinical electron microscope units worldwide. Containing high-quality representative images, this up-to-date text includes detailed information on the most important diagnostic applications of transmission electron microscopy as well as instructions for specific tissues and current basic preparative techniques. The book is relevant to trainee pathologists and practising pathologists who are expected to understand and evaluate/screen tissues by TEM. In addition, technical and scientific staff involved in tissue preparation and diagnostic tissue evaluation/screening by TEM will find this text useful.
The Comprehensive Textbook of Biomechanics [no access to course]   Jun 13 2021 ALL-ENCOMPASSING and EXPANDED, now covering the WHOLE BODY (lower quadrant PLUS upper quadrant and spine) – The Comprehensive Textbook of Clinical Biomechanics (formerly Biomechanics in Clinic and Research) presents the latest research in a form which is accessible, practical, thorough and up-to-the-minute. • Starts from basic principles and builds up to complex concepts • Highly practical with a constant clinical emphasis • Written for all health care professionals including physiotherapists and podiatrists • Addition of upper quadrant and spine • Title has changed to truly reflect the resource's expanded and comprehensive approach • Case studies and additional clinical examples • New methods in EMG analysis • Updated elearning course which is compatible with tablet and mobile devices • A global team of writers
Digital Wildlife Photography   Apr 11 2021 "From how many frames you need to shoot per second to capture that WOW moment to where to focus on a bird with a big beak to get the best depth of field, this book has it all for the wildlife photographer. It is an impressive mix of technology with just plain good advice for image-taking, and they discuss each point specifically for shooting wildlife, because it is a totally unique type of photography. The lighting and shutter speed for a macro flower shot is not the same that you'd need for a bird in flight or a kangaroo jumping across a field. Mix together this fantastic info with the many years of experience that the Gerlachs have shooting and teaching and the absolutely jaw-dropping images and you really do have a perfect storm for a book"--
Knowledge-Based Intelligent Information and Engineering Systems   Feb 27 2020 The four volume set LNAI 3681, LNAI 3682, LNAI 3683, and LNAI 3684 constitute the refereed proceedings of the 9th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2005, held in Melbourne, Australia in September 2005. The 716 revised papers presented were carefully reviewed and selected from nearly 1400 submissions. The papers present a wealth of original research results from the field of intelligent information processing in the broadest sense; topics covered in the fourth volume are innovations in intelligent systems and their applications, data mining and soft computing applications, skill acquisition and ubiquitous human computer interaction, soft computing and their applications, agent-based workflows, knowledge sharing and reuse, multi-media authentication and watermarking applications, knowledge and engineering techniques for spatio-temporal applications, intelligent data analysis and applications, creativitiy support environment and its social applications, collective intelligence, computational methods for intelligent neuro-fuzzy applications, evolutionary and self-organizing sensors, actuators and processing hardware, knowledge based systems for e-business and e-learning, multi-agent systems and evolutionary computing, ubiquitous pattern recognition, neural networks for data mining, and knowledge-based technology in crime matching, modelling and prediction.
Video Surveillance Equipment Selection and Application Guide   Aug 23 2019
Nonlinearity in Living Systems: Theoretical and Practical Perspectives on Metrics of Physiological Signal Complexity   May 24 2022 The biological basis of physiological signals is incredibly complex. While many types of research certainly appreciate molecular, cellular and systems approach to unravel overall biological complexity, in the recent decades the interest for mathematical and computational characterization of structural and functional basis underlying biological phenomena gain wide popularity among scientists. Nowadays, we witnessed wide range applications of nonlinear quantitative analysis that produced measures such as fractal dimension, power-law scaling, Hurst exponent, Lyapunov exponent, approximate entropy, sample entropy, Lempel–Ziv complexity, as well as other metrics for predictions of onset and progression of many pathological conditions, especially in the central nervous system (CNS). In this Research Topic, we seek to bring together the recent practical and theoretical advances in the development and application of nonlinear methods or narrower fractal-based methods for characterizing the complex physiological systems at multiple levels of the organization. We will discuss the use of various complexity measures and appropriate parameters for characterizing the variety of physiological signals up to the systems level. There are multiple aims in this topic. The recent advancement in the application of nonlinear methods for both normal and pathological physiological conditions is the first. The second aim is to emphasize the more recent successful attempt to apply these methods across animal species. Finally, a comprehensive understanding of advantages and disadvantages of each method, especially between its mathematical assumptions and real-world applicability, can help to find out what is at stake regarding the above aims and to direct us toward the more fruitful application of nonlinear measures and statistics in physiology and biology in general.
Membrane Potential Imaging in the Nervous System and Heart   Jul 02 2020 This volume discusses membrane potential imaging in the nervous system and in the heart and modern optical recording technology. Additionally, it covers organic and genetically-encoded voltage-sensitive dyes; membrane potential imaging from individual neurons, brain slices, and brains in vivo; optical imaging of cardiac tissue and arrhythmias; bio-photonics modelling. This is an expanded and fully-updated second edition, reflecting the recent advances in this field. Twenty chapters, all authored by leading names in the field, are cohesively structured into four sections. The opening section focuses on the history and principles of membrane potential imaging and lends context to the following sections, which examine applications in single neurons, networks, large neuronal populations and the heart. Topics discussed include population membrane potential signals in development of the vertebrate nervous system, use of membrane potential imaging from dendrites and axons, and depth-resolved optical imaging of cardiac activation and repolarization. The final section discusses the potential – and limitations – for new developments in the field, including new technology such as non-linear optics, advanced microscope designs and genetically encoded voltage sensors. Membrane Potential Imaging in the Nervous System and Heart is ideal for neurologists, electro physiologists, cardiologists and those who are interested in the applications and the future of membrane potential imaging.
Scientific and Technical Aerospace Reports   Sep 04 2020
Monoclonal Antibodies   Nov 25 2019 Monoclonal Antibodies: A Practical Approach covers the preparation, testing, derivation, and applications of monoclonal antibodies. New immunological techniques incorporating tried and tested methodologies are described, making the book of interest to established and inexperienced immunologists. Both the standard somatic hybridization technique and recombinant techniques, including the use of phage libraries, for the preparation of rodent and human monoclonal antibodies are described. Protocols for both the small and large scale production are detailed, as well as purification and labelling (with both radioisotopes and non-radioisotopes) methods. The applications of monoclonal antibodies in immunoblotting, enzyme linked immunoassays, immunofluorescence, and FACS analysis are all covered in detail. Finally protocols are given for the use of monoclonal antibodies in rheumatoid arthritis, tissue typing, detecting DNA modified during chemotherapy, and in the clinical analysis of transplantation samples for malignancy. This book will therefore be an invaluable laboratory companion to anyone using monoclonal antibodies in their research.
Nov 18 2021
Computed Tomography - E-Book   May 12 2021 Build the foundation necessary for the practice of CT scanning with Computed Tomography: Physical Principles, Patient Care, Clinical Applications, and Quality Control, 5th Edition. Written to meet the varied requirements of radiography students and practitioners, this two-color text provides comprehensive coverage of the physical principles of computed tomography and its clinical applications. The clear, straightforward approach is designed to improve your understanding of sectional anatomic images as they relate to computed tomography and facilitate communication between CT technologists and other medical personnel. Chapter outlines and chapter review questions help you focus your study time and master content. NEW! Three additional chapters reflect the latest industry CT standards in imaging: Radiation Awareness and Safety Campaigns in Computed Tomography, Patient Care Considerations, and Artificial Intelligence: An Overview of Applications in Health and Medical Imaging. UPDATED! More than 509 photos and line drawings visually clarify key concepts. UPDATED! The latest information keeps you up to date on advances in volume CT scanning: CT fluoroscopy; and multislice applications like 3-D imaging, CT angiography, and virtual reality imaging (endoscopy).
Real-Time Vision for Human-Computer Interaction   Jan 28 2020 200Ts Vision of Vision One of my formative childhood experiences was in 1968 stepping into the Uptown Theater on Connecticut Avenue in Washington, DC, one of the few movie theaters nationwide that projected in large-screen cinerama. I was there at the urging of a friend, who said I simply must see the remarkable film whose run had started the previous week. "You won't understand it," he said, "but that doesn't matter. " All I

knew was that the film was about science fiction and had great special eflPects. So I sat in the front row of the balcony, munched my popcorn, sat back, and experienced what was widely touted as "the ultimate trip." 2001: A Space Odyssey. My friend was right: I didn't understand it. . . but in some senses that didn't matter. (Even today, after seeing the film 40 times, I continue to discover its many subtle secrets.) I just had the sense that I had experienced a creation of the highest aesthetic order: unique, fresh, awe inspiring. Here was a film so distinctive that the first half hour had no words whatsoever: the last half hour had no words either; and nearly all the words in between were banal and irrelevant to the plot - quips about security through Voiceprint identification, how to make a phonecall from a space station, government pension plans, and so on.

Understanding Motion Capture for Computer Animation and Video Games   Feb 21 2022 Motion capture is one of the most talked about and misunderstood technologies in computer animation because of its rocketing popularity and ambiguous implementation. In Understanding Motion Capture for Computer Animation and Video Games , industry insider Alberto Menache tells the complete story of motion capture, examining its technical details as well as its growth as an industry. Menache's narrative voice and in-depth technical discussions allow the reader to not only learn motion capture, but also to understand the reasons behind its successes, failures, and increasing role in blockbuster films, such as Batman Forever and Batman and Robin . With its careful balance between technical analysis and industry trends, Understanding Motion Capture for Computer Animation and Video Games is the first book to explore the controversial art and practice of modern character animation using motion capture.

How to Get Anything on Anybody   Mar 10 2021 The world's only hands-on guide to electronic, surveillance, people tracking and asset discovery. How to do it, how to protect yourself from those who would. Used by all major intelligence agencies, now available to the public. People tracking to computer violating. The best of the worst. Or, perhaps the worst of the best. How to track, trace, and investigate anyone, anywhere, anytime. Uncover hidden assets and agendas, build a dossier, put together anyone's background. Used by the FBI as a training manual, How To, Book 3, teaches you the inside secrets of surveillance, people tracking, asset discovery, electronic and physical surveillance. Let the world's top experts, including the FBI and the KGB teach you hands-on surveillance, people tracking, asset location and rock turning. Nothing else like it on the planet.

Handbook of Camera Monitor Systems   Dec 19 2021 This handbook offers a comprehensive overview of Camera Monitor Systems (CMS), ranging from the ISO 16505-based development aspects to practical realization concepts. It offers readers a wide-ranging discussion of the science and technology of CMS as well as the human-interface factors of such systems. In addition, it serves as a single reference source with contributions from leading international CMS professionals and academic researchers.In combination with the latest version of UN Regulation No. 46, the normative framework of ISO 16505 permits CMS to replace mandatory rearview mirrors in series production vehicles. The handbook includes scientific and technical background information to further readers' understanding of both of these regulatory and normative texts.It is a key reference in the field of automotive CMS for system designers, members of standardization and regulation committees, engineers, students and researchers.

Omnidirectional Vision Systems   Jun 01 2020 This work focuses on central catadioptric systems, from the early step of calibration to high-level tasks such as 3D information retrieval. The book opens with a thorough introduction to the sphere camera model, along with an analysis of the relation between this model and actual central catadioptric systems. Then, a new approach to calibrate any single-viewpoint catadioptric camera is described. This is followed by an analysis of existing methods for calibrating central omnivision systems, and a detailed examination of hybrid two-view relations that combine images acquired with uncalibrated central catadioptric systems and conventional cameras. In the remaining chapters, the book discusses a new method to compute the scale space of any omnidirectional image acquired with a central catadioptric system, and a technique for computing the orientation of a hand-held omnidirectional catadioptric camera.

High Performance Embedded Computing Handbook   Oct 25 2019 Over the past several decades, applications permeated by advances in digital signal processing have undergone unprecedented growth in capabilities. The editors and authors of High Performance Embedded Computing Handbook: A Systems Perspective have been significant contributors to this field, and the principles and techniques presented in the handbook are reinforced by examples drawn from their work. The chapters cover system components found in today's HPEC systems by addressing design trade-offs, implementation options, and techniques of the trade, then solidifying the concepts with specific HPEC system examples. This approach provides a more valuable learning tool, Because readers learn about these subject areas through factual implementation cases drawn from the contributing authors' own experiences. Discussions include: Key subsystems and components Computational characteristics of high performance embedded algorithms and applications Front-end real-time processor technologies such as analog-to-digital conversion, application-specific integrated circuits, field programmable gate arrays, and intellectual property–based design Programmable HPEC systems technology, including interconnection fabrics, parallel and distributed processing, performance metrics and software architecture, and automatic code parallelization and optimization Examples of complex HPEC systems representative of actual prototype developments Application examples, including radar, communications, electro-optical, and sonar applications The handbook is organized around a canonical framework that helps readers navigate through the chapters, and it concludes with a discussion of future trends in HPEC systems. The material is covered at a level suitable for practicing engineers and HPEC computational practitioners and is easily adaptable to their own implementation requirements.

MultiMedia Modeling   Jun 25 2022 The two-volume set LNCS 10704 and 10705 constitutes the thoroughly refereed proceedings of the 24th International Conference on Multimedia Modeling, MMM 2018, held in Bangkok, Thailand, in February 2018. Of the 185 full papers submitted, 46 were selected for oral presentation and 28 for poster presentation; in addition, 5 papers were accepted for Multimedia Analytics: Perspectives, Techniques, and Applications, 12 extended abstracts for demonstrations ,and 9 accepted papers for Video Browser Showdown 2018. All papers presented were carefully reviewed and selected from 185 submissions.

Computer Animation Complete   Dec 07 2020 A compilation of key chapters from the top MK computer animation books available today - in the areas of motion capture, facial features, solid spaces, fluids, gases, biology, point-based graphics, and Maya. The chapters provide CG Animators with an excellent sampling of essential techniques that every 3D artist needs to create stunning and versatile images. Animators will be able to master myriad modeling, rendering, and texturing procedures with advice from MK's best and brightest authors. Divided into five parts (Introduction to Computer Animation and Technical Background, Motion Capture Techniques, Animating Substances, Alternate Methods, and Animating with MEL for MAYA), each one focusing on specific substances, tools, topics, and languages, this is a MUST-HAVE book for artists interested in proficiency with the top technology available today! Whether you're a programmer developing new animation functionality or an animator trying to get the most out of your current animation software, Computer Animation Complete: will help you work more efficiently and achieve better results. For programmers, this book provides a solid theoretical orientation and extensive practical instruction information you can put to work in any development or customization project. For animators, it provides crystal-clear guidance on determining which of your concepts can be realized using commercially available products, which demand custom programming, and what development strategies are likely to bring you the greatest success. Expert instruction from a variety of pace-setting computer graphics researchers. Provides in-depth coverage of established and emerging animation algorithms. For readers who lack a strong scientific background, introduces the necessary concepts from mathematics, biology, and physics. A variety of individual languages and substances are addressed, but addressed separately - enhancing your grasp of the field as a whole while providing you with the ability to identify and implement solutions by category.

Multisensor Surveillance Systems   Sep 16 2021 Monitoring of public and private sites is increasingly becoming a very important and critical issue, especially after the recent flurry of terrorist attacks including the one on the Word Trade Center in September 2001. It is, therefore, imperative that effective multisensor surveillance systems be developed to protect the society from similar attacks in the future. The new generation of surveillance systems to be developed have a specific requirement: they must be able to automatically identify criminal and terrorist activity without sacrificing individual privacy to the extent possible. Privacy laws concerning monitoring and surveillance systems vary from country to country but, in general, they try to protect the privacy of their citizens. Monitoring and visual surveillance has numerous other applications. It can be employed to help invalids or handicapped and to monitor the activities of elderly people. It can be used to monitor large events such as sporting events, as well. Nowadays, monitoring is employ–d in several different contexts including transport applications, such as monitoring of railway stations and airports, dangerous environments like nuclear facilities or traffic flows on roads and bridges. The latest generation of surveillance systems mainly rely on hybrid analog-digital, or completely digital video communications and processing methods and take advantage of the greater of flexibility offered by video processing algorithms that are capable focusing a human operator's attention on a set of interesting situations.

Video Surveillance of Nesting Birds   Aug 27 2022 "Until recently, inferring identities of predators and monitoring cryptic behaviors at the nest was time-consuming, often with anecdotal results. No more. Video nest surveillance, so aptly revealed in this volume, has ushered in a new era of data collection that allows field workers to link environmental factors with such aspects as the temporal dynamics of predator communities in relation to what the birds are doing at their nests, thus removing much of the guesswork of earlier studies."--Spencer G. Sealy, University of Manitoba "Video Surveillance of Nesting Birds shatters earlier beliefs about how birds interact with nest predators. Much of what we thought we knew about nesting and its hazards was flat-out wrong, as authors in this book discovered by using modern technology in the field. As simple as we would like our models of animal behavior to be, this book shows that reality is far more complex and nuanced."--Douglas H. Johnson, University of Minnesota

Modern Agricultural and Resource Economics and Policy   Dec 27 2019 This volume celebrates the life and career of Gordon Rausser, pioneer and leader in natural resource economics, while critically overviewing the emerging literature in the field. As the chair of the Agriculture and Resource Economics department at UC Berkeley, Rausser led the transformation of the department from a traditional agricultural economics department to a diverse resource economics department addressing issues of agriculture, food, natural resources, environmental economics, energy, and development. This book builds on this theme, showcasing not only the scope of Rausser's work but also key developments in the field. The volume is organized into two parts. The first part speaks about the lessons of Gordon Rausser's career, in particular, his role as a leader in different spheres, his capacity to integrate teaching and entrepreneurship, and his impact on the world food system. The second part will address some of the significant developments in the field he contributed to and how it relates to his work. The chapters include contributions from modern leaders in the economics field and cover diverse topics from many subfields including public policy, public finance, law, econometrics, macroeconomics, and water resources. Providing an excellent reference, as well as a celebration of a pivotal figure in the field, this volume will be useful for practitioners and scholars in agricultural and resource economics, especially the many individuals familiar with Gordon Rausser and his career.

Advanced Driver Assistance Systems and Autonomous Vehicles   Jul 26 2022 This book provides a comprehensive reference for both academia and industry on the fundamentals, technology details, and applications of Advanced Driver-Assistance Systems (ADAS) and autonomous driving, an emerging and rapidly growing area. The book written by experts covers the most recent research results and industry progress in the following areas: ADAS system design and test methodologies, advanced materials, modern automotive technologies, artificial intelligence, reliability concerns, and failure analysis in ADAS. Numerous images, tables, and didactic schematics are included throughout. This essential book equips readers with an in-depth understanding of all aspects of ADAS, providing insights into key areas for future research and development. • Provides comprehensive coverage of the state-of-the-art in ADAS • Covers advanced materials, deep learning, quality and reliability concerns, and fault isolation and failure analysis • Discusses ADAS system design and test methodologies, novel automotive technologies • Features contributions from both academic and industry authors, for a complete view of this important technology

Imaging Our Solar System: The Evolution of Space Mission Cameras and Instruments   Apr 23 2022 As we speak, stunning new snapshots of our Solar System are being transmitted to Earth by a fleet of space probes, landers, and rovers. Yet nowadays, it is all too easy to take such images for granted amidst the deluge of competing visuals we scroll through every day. To truly understand the value of these incredible space photos, we first need to understand the tools that made them possible. This is the story of imaging instruments in space, detailing all the technological missteps and marvels that have allowed us to view planetary bodies like never before. From the rudimentary cameras launched in the 1950's to the cutting-edge imaging instruments onboard the Mars Perseverance rover, this book covers more than 100 imaging systems sent aboard various spacecraft to explore near and distant planetary bodies. Featured within are some of the most striking images ever received by these pioneering instruments, including Voyager's Pale Blue Dot, Apollo's Blue Marble, Venera's images from the surface of Venus, Huygens' images of Titan, New Horizon's

images of Pluto and Arrokoth, and much more. Along the way, you will learn about advancements in data transmission, digitization, citizen science, and other fields that revolutionized space imaging, helping us peer farther and more clearly across the Solar System.

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