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Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention Management Association, Information Resources 2022-09-09 Medical imaging provides medical professionals the unique ability to investigate and diagnose injuries and illnesses without being intrusive. With the surge of technological advancement in recent years, the practice of medical imaging has only been improved through these technologies and procedures. It is essential to examine these innovations in medical imaging to implement and improve the practice around the world. The Research Anthology on Improving Medical Imaging Techniques for Analysis and Intervention investigates and presents the recent innovations, procedures, and technologies implemented in medical imaging. Covering topics such as automatic detection, simulation in medical education, and neural networks, this major reference work is an excellent resource for radiologists, medical professionals, hospital administrators, medical educators and students, librarians, researchers, and academicians.

Improving Information Security Practices through Computational Intelligence Awad, Wasan Shaker 2015-08-26 The recent explosion in complex global networking architectures has spurred a concomitant rise in the need for robust information security. Further, as computing power increases exponentially with every passing year, so do the number of proposed cryptographic schemata for improving and ensuring the encryption integrity of cutting-edge infosec protocols. Improving Information Security Practices through Computational Intelligence presents an overview of the latest and greatest research in the field, touching on such topics as cryptology, stream ciphers, and intrusion detection, and providing new insights to an audience of students, teachers, and entry-level researchers working in computational intelligence, information security, and security engineering.

Computer Science and Applications Ally Hu 2015-06-11 The 2014 Asia-Pacific Conference on Computer Science and Applications was held in Shanghai, December 27-28, 2014. These CSAC-2014 proceedings include 105 selected papers, which focus not only on the research of science and technology of computer sciences, but also on the research of applications, aiming at a quick and immediate effect on *UAV or Drones for Remote Sensing Applications* Felipe Gonzalez Toro 2018-11-23 This book is a printed edition of the Special Issue "UAV or Drones for Remote Sensing Applications" that was published in Sensors

Intelligent Computing in Engineering Vijender Kumar Solanki 2020-04-09 This book comprises select papers from the international conference on Research in Intelligent and Computing in Engineering (RICE 2019) held at Hanoi University of Industry, Hanoi, Vietnam. The volume focuses on current research on various computing models such as centralized, distributed, cluster, grid and cloud. The contents cover recent advances in wireless sensor networks, mobile ad hoc networks, internet of things, machine learning, grid and cloud computing, and their various applications. The book will help researchers as well as professionals to gain insight into the rapidly evolving fields of internet computing and data mining.

The Proceedings of the Second International Conference on Communications, Signal Processing, and Systems Baoju Zhang 2014-01-28 The Proceedings of The Second International Conference on Communications, Signal Processing, and Systems provides the state-of-art developments of Communications, Signal Processing, and Systems. The conference covered such topics as wireless communications, networks, systems, signal processing for communications. This book is a collection of contributions coming out of The Second International Conference on Communications, Signal Processing, and Systems (CSPS) held September 2013 in Tianjin, China.

Conference Proceedings. The Future of Education. 8th Edition Pixel 2018

Multimedia Security Kaiser J. Giri 2021-01-11 This book is a collection of outstanding content written by experts working in the field of multimedia security. It provides an insight about various techniques used in multimedia security and identifies its progress in both technological and algorithmic perspectives. In the contemporary world, digitization offers an effective mechanism to process, preserve and transfer all types of information. The incredible progresses in computing and communication technologies augmented by economic feasibility have revolutionized the world. The availability of efficient algorithms together with inexpensive digital recording and storage peripherals have created a multimedia era bringing conveniences to people in sharing the digital data that includes images, audio and video. The ever-increasing pace, at which the multimedia and communication technology is growing, has also made it possible to combine, replicate and distribute the content faster and easier, thereby empowering mankind by having a wealth of information at their disposal. However, security of multimedia is giving tough time to the research community around the globe, due to ever-increasing and efficient attacks carried out on multimedia data by intruders, eves-droppers and hackers. Further, duplication, unauthorized use and mal-distribution of digital content have become a serious challenge as it leads to copyright violation and is considered to be the principal reason that refrains the information providers in freely sharing their proprietary digital content. The book is useful for students, researchers and professionals to advance their study.

Discrete Geometry and Mathematical Morphology Joakim Lindblad 2021-05-15 This book constitutes the proceedings of the First IAPR International Conference on Discrete Geometry and Mathematical Morphology, DGMM 2021, which was held during May 24-27, 2021, in Uppsala, Sweden. The conference was created by joining the International Conference on Discrete Geometry for computer Imagery, DGCI, with the International Symposium on Mathematical Morphology, ISMM. The 36 papers included in this volume were carefully reviewed and selected from 59 submissions. They were organized in topical sections as follows: applications in image processing, computer vision, and pattern recognition; discrete and combinatorial topology; discrete geometry - models, transforms, visualization; discrete tomography and inverse problems; hierarchical and graph-based models, analysis and segmentation; learning-based approaches to mathematical morphology; multivariate and PDE-based mathematical morphology, morphological filtering. The book also contains 3 invited keynote papers.

Educating for the 21st Century Suzanne Choo 2016-10-20 All over the world, governments, policymakers, and educators are advocating the need to educate students for the 21st first century. This book provides insights into what this means and the ways 21st century education is theorized and implemented in practice. The first part, "Perspectives: Mapping our futures-in-the-making," uncovers the contradictions, tensions and processes that shape 21st century education discourses. The second part, "Policies: Constructing the future through policymaking," discusses how 21st century education is translated into policies and the resulting tensions that emerge from top-down, state sanctioned policies and bottom-up initiatives. The third part, "Practices: Enacting the Future in Local Contexts," discusses on-the-ground initiatives that schools in various countries around the world enact to educate their students for the 21st century. This volume includes contributions from leading scholars in the field as well as educators from schools and those working with schools.

Communications and Networking Xingang Liu 2019-01-15 The book constitutes the refereed proceedings of the 13th EAI International Conference on Communications and Networking, held in October 2018 in Chengdu, China. The 71 papers presented were carefully selected from 114 submissions. The papers are organized in topical sections on wireless communications and networking, next generation WLAN, big data networks, cloud communications and networking, ad hoc and sensor networks, satellite and space communications and networking, optical communications and networking, information and coding theory, multimedia communications and smart networking, green communications and computing, signal processing for communications, network and information security, machine-to-machine and IoT, communication QoS, reliability and modeling, cognitive radio and networks, smart internet of things modeling, pattern recognition and image signal processing, digital audio and video signal processing, antenna and microwave communications, radar imaging and target recognition, and video coding and image signal processing.

Smart Education in China and Central & Eastern European Countries Rongxia Zhuang 2023-01-30 This book focuses on the development of smart education in China and some countries of Central and Eastern Europe. A brief discussion on the idea of smart education was given in the introduction chapter, followed by a series of national smart education profiles of eleven countries. In detail, the profile starts with an overview of ICT in Education or smart education in the country and policies of ICT in Education or smart education. Some key features of smart education in each country were discussed with examples of best practices. The profile ends with a description of trends of smart education in the country. Based on the information above, the final chapter presents an analysis among the eleven countries with six major features they presented and concluded the book with suggestions on advancing smart education by three points.

Entropy in Image Analysis Amelia Carolina Sparavigna 2019-06-24 Image analysis is a fundamental task for extracting information from images acquired across a range of different devices. Since reliable quantitative results are requested, image analysis requires highly sophisticated numerical and analytical methods—particularly for applications in medicine, security, and remote sensing, where the results of the processing may consist of vitally important data. The contributions to this book provide a good overview of the most important demands and solutions concerning this research area. In particular, the reader will find image analysis applied for feature extraction, encryption and decryption of data, color segmentation, and in the support new technologies. In all the contributions, entropy plays a pivotal role.

Photon-Counting Image Sensors Eric R. Fossum 2018-07-06 This book is a printed edition of the Special Issue "Photon-Counting Image Sensors" that was published in Sensors

Parallel Architectures, Algorithms and Programming Li Ning 2021-02-06 This book constitutes the refereed proceedings of the 11th International Symposium on Parallel Architectures, Algorithms and Programming, PAAP 2020, held in Shenzhen, China, in December 2020. The 37 revised full papers presented were carefully reviewed and selected from 75 submissions. The papers deal with research results and development activities in all aspects of parallel architectures, algorithms and programming techniques.

Conference proceedings. New perspectives in science education Pixel 2014

Intelligent Cyber Physical Systems and Internet of Things Jude Hemanth 2023-02-03 This book highlights the potential research areas of Information and Communication Technologies (ICT), such as the research in the field of modern computing and communication technologies that deal with different aspects of data analysis and network connectivity to develop solution for the emerging real-time information system challenges; contains a brief discussion about the progression from information systems to intelligent information systems, development of autonomous systems, real-time implementation of Internet of Things (IoT) and Cyber Physical Systems (CPS), fundamentals of intelligent information systems and analytical activities; helps to gain a significant research knowledge on modern communication technologies from the novel research contributions dealing with different aspects of communication systems, which showcase effective technological solutions that can be used for the implementation of novel distributed wireless communication systems. The individual chapters included in this book will provide a valuable resource for the researchers, scientists, scholars, and research enthusiasts, who have more interest in Information and Communication Technologies (ICT). Encompassing the contributions of professors and researchers from Indian and other foreign universities, this book will be of interest to students, researchers, and practitioners, as well as members of the general public interested in the realm of Internet of Things (IoT) and Cyber Physical Systems (CPS).

Mathematics for Machine Learning Marc Peter Deisenroth 2020-04-23 The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Conference proceedings. ICT for language learning. 9th edition Pixel 2016

Digital-Forensics and Watermarking Yun-Qing Shi 2015-06-24 This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Workshop on Digital-Forensics and Watermarking, IWDM 2014, held in Taipei, Taiwan, during October 2014. The 32 full and 14 poster papers, presented together with 1 keynote speech, were carefully reviewed and selected from 79 submissions. The papers are organized in topical sections on forensics; watermarking; reversible data hiding; visual cryptography; and steganography and steganalysis.

Multimedia Networks Hans W. Barz 2016-01-14 The transportation of multimedia over the network requires timely and errorless transmission much more strictly than other data. This had led to special protocols and to special treatment in multimedia applications (telephony, IP-TV, streaming) to overcome network issues. This book begins with an overview of the vast market combined with the user's expectations. The base mechanisms of the audio/video coding

(H.26x etc.) are explained to understand characteristics of the generated network traffic. Further chapters treat common specialized underlying IP network functions which cope with multimedia data in conjunction which special time adaption measures. Based on those standard functions these chapters can treat uniformly SIP, H.248, High-End IP-TV, Webcast, Signage etc. A special section is devoted to home networks which challenge high-end service delivery due to possibly unreliable management. The whole book treats concepts described in accessible IP-based standards and which are implemented broadly. The book is aimed at graduate students/practitioners with good basic knowledge in computer networking. It provides the reader with all concepts of currently used IP technologies of how to deliver multimedia efficiently to the end user.

Applications of Evolutionary Computation Anna I. Esparcia-Alcázar 2014-11-28 This book constitutes the thoroughly refereed post-conference proceedings of the International Conference on the Applications of Evolutionary Computation, EvoApplications 2014, held in Granada, Spain, in April 2014, colocated with the Evo* 2014 events EuroGP, EvoCOP, and EvoMUSART. The 79 revised full papers presented were carefully reviewed and selected from 128 submissions. EvoApplications 2014 consisted of the following 13 tracks: EvoCOMNET (nature-inspired techniques for telecommunication networks and other parallel and distributed systems), EvoCOMPLEX (evolutionary algorithms and complex systems), EvoENERGY (evolutionary computation in energy applications), EvoFIN (evolutionary and natural computation in finance and economics), EvoGAMES (bio-inspired algorithms in games), EvoIASP (evolutionary computation in image analysis, signal processing, and pattern recognition), EvoINDUSTRY (nature-inspired techniques in industrial settings), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoRISK (computational intelligence for risk management, security and defence applications), EvoROBOT (evolutionary computation in robotics), EvoSTOC (evolutionary algorithms in stochastic and dynamic environments), and EvoBio (EC and related techniques in bioinformatics and computational biology).

The Palgrave Handbook of Textbook Studies Eckhardt Fuchs 2018-04-04 This volume examines the present status and future trends of textbook studies. Cutting-edge essays by leading experts and emerging scholars explore the field's theories, methodologies, and topics with the goal of generating debate and providing new perspectives. The Georg Eckert Institute's unique transdisciplinary focus on international textbook research has shaped this handbook, which explores the history of the discipline, the production processes and contexts that influence textbooks, the concepts they incorporate, how this medium itself is received and future trends. The book maps and discusses approaches based in cultural studies as well as in the social and educational sciences in addition to contemporary methodologies used in the field. The book aims to become the central interdisciplinary reference for textbook researchers, students, and educational practitioners.

Psychological and Pedagogical Considerations in Digital Textbook Use and Development Railean, Elena 2015-04-30 "This book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives, offering an emphasis on assessment mechanisms and learning theory"--

Information Technology Yi Wan 2015-09-07 These proceedings of the symposium ISIT 2014 aim to be a platform for international exchange of the state-of-the-art research and practice in information technology. The contributions cover a wide variety of topics, ranging from theoretical and analytical studies to various applications.

Progress in Industrial Mathematics at ECMI 2014 Giovanni Russo 2017-09-04 This book presents a collection of papers emphasizing applications of mathematical models and methods to real-world problems of relevance for industry, life science, environment, finance and so on. The biannual Conference of ECMI (the European Consortium of Mathematics in Industry) held in 2014 focused on various aspects of industrial and applied mathematics. The five main topics addressed at the conference were mathematical models in life science, material science and semiconductors, mathematical methods in the environment, design automation and industrial applications, and computational finance. Several other topics have been treated, such as, among others, optimization and inverse problems, education, numerical methods for stiff pdes, model reduction, imaging processing, multi physics simulation, mathematical models in textile industry. The conference, which brought together applied mathematicians and experts from industry, provided a unique opportunity to exchange ideas, problems and methodologies, bridging the gap between mathematics and industry and contributing to the advancement of science and technology. The conference has included a presentation of EU-Maths-In (European Network of Mathematics for Industry and Innovation), a recent joint initiative of ECMI and EMS. The proceedings from this conference represent a snapshot of the current activity in industrial mathematics in Europe, and are highly relevant to anybody interested in the latest applications of mathematics to industrial problems.

Computational Science and Its Applications - ICCSA 2014 Beniamino Murgante 2014-07-01 The six-volume set LNCS 8579-8584 constitutes the refereed proceedings of the 14th International Conference on Computational Science and Its Applications, ICCSA 2014, held in Guimarães, Portugal, in June/July 2014. The 347 revised papers presented in 30 workshops and a special track were carefully reviewed and selected from 1167. The 289 papers presented in the workshops cover various areas in computational science ranging from computational science technologies to specific areas of computational science such as computational geometry and security.

Handbook of Radioactivity Analysis Michael F. L'Annunziata 2020-03-03 Handbook of Radioactivity Analysis: Radiation Physics and Detectors, Volume One, and Radioanalytical Applications, Volume Two, Fourth Edition, is an authoritative reference on the principles, practical techniques and procedures for the accurate measurement of radioactivity - everything from the very low levels encountered in the environment, to higher levels measured in radioisotope research, clinical laboratories, biological sciences, radionuclide standardization, nuclear medicine, nuclear power, and fuel cycle facilities, and in the implementation of nuclear forensic analysis and nuclear safeguards. It includes sample preparation techniques for all types of matrices found in the environment, including soil, water, air, plant matter and animal tissue, and surface swipes. Users will find a detailed discussion of our current understanding of the atomic nucleus, nuclear stability and decay, nuclear radiation, and the interaction of radiation with matter relating to the best methods for radionuclide detection and measurement. Spans two volumes, Radiation Physics and Detectors and Radioanalytical Applications Includes a much-expanded treatment of calculations required in the measurement of radionuclide decay, energy of decay, nuclear reactions, radiation attenuation, nuclear recoil, cosmic radiation, and synchrotron radiation Includes the latest advances in liquid and solid scintillation analysis, alpha- and gamma spectrometry, mass spectrometric analysis, gas ionization and nuclear track analysis, and neutron detection and measurement Covers high-sample-throughput microplate techniques and multi-detector assay methods

The Filmmaker's Guide to Digital Imaging Blain Brown 2014-08-21 It's a whole new world for cinematographers, camera assistants, and postproduction artists. New equipment, new methods, and new technologies have to be learned and mastered. New roles such as that of the DIT (Digital Imaging Technician), Digital Loader, and Data Manager are integral to today's motion picture production process. Take your mastery of these new tools, techniques, and roles to the next level with this cutting-edge roadmap from esteemed author and filmmaker Blain Brown. The Filmmaker's Guide to Digital Imaging covers both the theory and the practice, featuring full-color, in-depth coverage of essential terminology, technology, and industry-standard best-practices. Brown covers new industry-wide production standards such as ASC-CDL and the ACES workflow. Interviews with professional cinematographers and DITs working on Hollywood productions equip you with knowledge that is essential if you want to work in today's motion picture industry, whether as a cinematographer, DIT, Digital Loader, Data Manager, camera assistant, editor, or VFX artist. Topics include: Digital sensors and cameras The structure of digital images Waveform monitors, vectorscopes, and test charts Using linear, gamma, and log encoded video files Exposure techniques for HD and UltraHD Understanding digital color Codescs and file formats The DIT cart Downloading, ingesting, and managing video files Workflow from camera to DIT cart to post Using metadata and timecode The companion website (www.focalpress.com/cw/brown) features additional material, including demonstrations and interviews with experienced DITs and cinematographers.

Breast Imaging Hiroshi Fujita 2014-06-23 This book constitutes the refereed proceedings of the 12th International Workshop on Breast Imaging, IWDM 2014, held in Gifu City, Japan, in June/July 2014. The 24 revised full papers and 73 revised poster papers presented together with 6 invited talks were carefully reviewed and selected from 122 submissions. The papers are organized in topical sections on screening outcomes, ultrasound, breast density, imaging physics, CAD, tomosynthesis and ICT and image processing.

Computational Modeling of Objects Presented in Images: Fundamentals, Methods, and Applications Yongjie Jessica Zhang 2014-07-23 This book constitutes the refereed proceedings of the 4th International Conference on Computational Modeling of Objects Presented in Images, CompIMAGE 2014, held in Pittsburgh, PA, USA, in September 2014. The 29 revised full papers presented together with 10 short papers and 6 keynote talks were carefully reviewed and selected from 54 submissions. The papers cover the following topics: medical treatment, imaging and analysis; image registration, denoising and feature identification; image segmentation; shape analysis, meshing and graphs; medical image processing and simulations; image recognition, reconstruction and predictive modeling; image-based modeling and simulations; and computer vision and data-driven investigations.

Proceedings of the Sixth International Conference on Mathematics and Computing Debasis Giri 2020-12-10 This book features selected papers from the 6th International Conference on Mathematics and Computing (ICMC 2020), organized by Sikkim University, Gangtok, Sikkim, India, during September 2020. It covers recent advances in the field of mathematics, statistics, and scientific computing. The book presents innovative work by leading academics, researchers, and experts from industry.

Interpretable Machine Learning Christoph Molnar 2020 This book is about making machine learning models and their decisions interpretable. After exploring the concepts of interpretability, you will learn about simple, interpretable models such as decision trees, decision rules and linear regression. Later chapters focus on general model-agnostic methods for interpreting black box models like feature importance and accumulated local effects and explaining individual predictions with Shapley values and LIME. All interpretation methods are explained in depth and discussed critically. How do they work under the hood? What are their strengths and weaknesses? How can their outputs be interpreted? This book will enable you to select and correctly apply the interpretation method that is most suitable for your machine learning project.

Understanding Machine Learning Shai Shalev-Shwartz 2014-05-19 Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

Conference proceedings. ICT for language learning Pixel 2014

Photoshop CC: The Missing Manual Lesa Snider 2014-08-14 Annotation Photoshop CC is truly amazing, but it can also be overwhelming if you're just getting started. This book makes learning Photoshop as easy as possible by explaining things in a friendly, conversational style without technical jargon. After a thorough introduction to the program, you'll delve deep into Photoshop's secrets with expert tips and practical editing advice you can use every day.

Image and Video Technology Reinhard Klette 2014-01-31 This book constitutes the thoroughly refereed post-conference proceedings of the 6th Pacific Rim Symposium on Image and Video Technology, PSIVT 2013, held in Guanajuato, México in October/November 2013. The total of 43 revised papers were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections on image/video processing and analysis, image/video retrieval and scene understanding, applications of image and video technology, biomedical image processing and analysis, biometrics and image forensics, computational photography and arts, computer and robot vision, pattern recognition and video surveillance.

Genetic and Evolutionary Computing Jerry Chun-Wei Lin 2017-10-16 This volume of Advances in Intelligent Systems and Computing highlights papers presented at the 11th International Conference on Genetic and Evolutionary Computing (ICGEC 2017). Held from 6 to 8 November 2017 in Kaohsiung, Taiwan, the conference was co-sponsored by Springer, Fujian University of Technology in China, National University of Kaohsiung, Harbin Institute of Technology, National Kaohsiung University of Applied Sciences, and VSB -Technical University of Ostrava. The conference was intended as an international forum for researchers and professionals engaged in all areas of genetic computing, intelligent computing, evolutionary and grid computing.

Combinatorial Image Analysis Reneta P. Barneva 2014-04-23 This volume constitutes the refereed proceedings of the 16th International Workshop on Combinatorial Image Analysis, IWCI 2014, held in Brno, Czech Republic, in May 2014. The 20 revised full papers and 3 invited papers presented were carefully reviewed and selected from numerous submissions. The topics covered include discrete geometry and topology in imaging science, new results in image representation, segmentation, grouping, and reconstruction, medical image processing.

Mathematics and Computing Debbas Ghosh 2018-04-13 This book constitutes the proceedings of the 4th International Conference on Mathematics and Computing, ICMC 2018, held in Varanasi, India, in January 2018. The 29 papers presented in this volume were carefully reviewed and selected from 116 submissions. They are organized in topical sections on security and coding theory; computing; applied mathematics; pure mathematics.