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Image Processing Using FPGAs
Springer Science & Business Media

This volume is the most comprehensive reference work on visual communications to date. An international group of well-known experts in the field provide up-to-date and in-depth contributions on topics such as fundamental theory, international standards for industrial applications, high definition television, optical communications networks, and VLSI design. The book includes information for learning about both the

fundamentals of image/video compression as well as more advanced topics in visual communications research. In addition, the Handbook of Visual Communications explores the latest developments in the field, such as model-based image coding, and provides readers with insight into possible future developments. Displays comprehensive coverage from fundamental theory to international standards and VLSI design Includes 518 pages of contributions from well-known experts Presents state-of-the-art knowledge--the most up-to-date and accurate information on various topics in the field Provides an extensive overview of international standards for industrial applications

Digital Image Processing with Application to Digital Cinema Springer Science &

Business Media

Since the publication of the best-selling, highly acclaimed first edition, the technology and clinical applications of medical imaging have changed significantly. Gathering these developments into one volume, Webb's *Physics of Medical Imaging, Second Edition* presents a thorough update of the basic physics, modern technology and many examples of clinical application across all the modalities of medical imaging. New to the Second Edition Extensive updates to all original chapters Coverage of state-of-the-art detector technology and computer processing used in medical imaging 11 new contributors in addition to the original team of authors Two new chapters on medical image processing

and multimodality imaging More than 50 percent new examples and over 80 percent new figures Glossary of abbreviations, color insert and contents lists at the beginning of each chapter Keeping the material accessible to graduate students, this well-illustrated book reviews the basic physics underpinning imaging in medicine. It covers the major techniques of x-radiology, computerised tomography, nuclear medicine, ultrasound and magnetic resonance imaging, in addition to infrared, electrical impedance and optical imaging. The text also describes the mathematics of medical imaging, image processing, image perception, computational requirements and multimodality imaging.

Handbook of Digital Imaging Springer

Science & Business Media

Image processing is a fascinating applications area, not a fundamental science of sufficient generality to warrant studying it for its own sake. In this area, there are many opportunities to apply art and experience, as well as knowledge from a number of sciences and engineering disciplines, to the creation of products and processes for which society has an expressed need. Without this need, work in the field would be sterile, but with it, image processing can readily provide the interested scientist or engineer with a professional lifetime of challenging problems and corresponding rewards. This point of view motivates this book and has influenced the selection and treatment of topics. I have not

attempted to be encyclopedic; this service has already been performed by others. It will be noted that the word "digital" is not in the title of this book. While much of present-day image processing is implemented digitally, this work is not intended for those who think of image processing as a branch of digital signal processing, except, perhaps, to try to change their minds. Image gathering and image display, vital parts of the field with strong effects on image quality, are inherently analog, as are all of the channels and media now used, or likely to be used in the future, to record TV signals and to transmit them to the home.

Intelligent Image and Video Compression Academic Press

With crystal clarity, this book conveys

the most current principles in digital image processing, providing both the background theory and the practical applications to various industries, such as digital cinema, video compression, and streaming media. This book contains tons of useful features, including: * a chapter on the role of human vision in image visualization, * the MATLAB codes used to generate most of the figures and tables listed in the book, as well as a few MATLAB projects, * a 24-pg color insert * case studies to illustrate the practical application of the theory.

Readings in Multimedia Computing and Networking CRC Press

With the increasing interest in holography for 3D imaging applications, there is a need to develop and use hologram compression techniques for

the efficient storage and transmission of holographic data. This book gives a broad overview of the state-of-the-art techniques for the efficient compression and representation of digital holographic data, addressing both still and moving data sequences. An Introduction to the principles of digital holography A critical analysis of the techniques that have been developed Coverage of the most recent research results A summary of future research challenges

Quantitation and Clinical Applications
Springer Science & Business Media

The discrete wavelet transform (DWT) algorithms have a firm position in processing of signals in several areas of research and industry. As DWT provides both octave-scale frequency and spatial timing of the analyzed signal, it is

constantly used to solve and treat more and more advanced problems. The present book: Discrete Wavelet Transforms: Algorithms and Applications reviews the recent progress in discrete wavelet transform algorithms and applications. The book covers a wide range of methods (e.g. lifting, shift invariance, multi-scale analysis) for constructing DWTs. The book chapters are organized into four major parts. Part I describes the progress in hardware implementations of the DWT algorithms. Applications include multitone modulation for ADSL and equalization techniques, a scalable architecture for FPGA-implementation, lifting based algorithm for VLSI implementation, comparison between DWT and FFT based OFDM and modified SPIHT codec.

Part II addresses image processing algorithms such as multiresolution approach for edge detection, low bit rate image compression, low complexity implementation of CQF wavelets and compression of multi-component images. Part III focuses watermarking DWT algorithms. Finally, Part IV describes shift invariant DWTs, DC lossless property, DWT based analysis and estimation of colored noise and an application of the wavelet Galerkin method. The chapters of the present book consist of both tutorial and highly advanced material. Therefore, the book is intended to be a reference text for graduate students and researchers to obtain state-of-the-art knowledge on specific applications.

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8th International Conference, Kraków, Poland, June 23-25, 2008, Proceedings
John Wiley & Sons

This three-volume set LNCS 10666, 10667, and 10668 constitutes the refereed conference proceedings of the 9th International Conference on Image and Graphics, ICIG 2017, held in Shanghai, China, in September 2017. The 172 full papers were selected from 370 submissions and focus on advances of theory, techniques and algorithms as well as innovative technologies of image, video and graphics processing and fostering innovation, entrepreneurship, and networking.

Digital Video Image Quality and Perceptual Coding CRC Press

Focusing exclusively on Image-Based Rendering (IBR) this book examines the theory, practice, and applications associated with image-based rendering and modeling. Topics covered vary from IBR basic concepts and representations on the theory side to signal processing and data compression on the practical side. One of the only titles devoted exclusively to IBR this book is intended for researchers, professionals, and general readers interested in the topics of computer graphics, computer vision, image process, and video processing. With this book advanced-level students in EECS studying related disciplines will be able to seriously expand their knowledge about image-based

rendering.

Computational Science - ICCS 2008
Springer Science & Business Media

This book is about digital imaging. In particular the authors describe image acquisition, compression, transmission, storage, etc. With exception of a handful of very technical people, just about everyone else has no knowledge of this. The book is written for the general public, particularly for these who use smart phones to take, send, and receive pictures. Digital imaging is ubiquitous in our daily life. We will start with camera capture, and go into details to describe every component from a captured digital image to its compressed version in term of a binary bit-stream, and to decoding the binary representation to recover the image. The mathematics of discrete

cosine transform and entropy coding are discussed with illustrations. Industry standards including JPEG, JPEG 2000, and MPEG video are also introduced.

Color Image Processing and Applications
Springer Science & Business Media

This book covers the MPEG H.264 and MS VC-1 video coding standards as well as issues in broadband video delivery over IP networks. This professional reference is designed for industry practitioners, including video engineers, and professionals in consumer electronics, telecommunications and media compression industries. The book is also suitable as a secondary text for advanced-level students in computer science and electrical engineering.

Digital Image Compression

Techniques Elsevier

Intelligent Image and Video Compression: Communicating Pictures, Second Edition explains the requirements, analysis, design and application of a modern video coding system. It draws on the authors' extensive academic and professional experience in this field to deliver a text that is algorithmically rigorous yet accessible, relevant to modern standards and practical. It builds on a thorough grounding in mathematical foundations and visual perception to demonstrate how modern image and video compression methods can be designed to meet the rate-quality performance levels demanded by today's applications and users, in the context of prevailing network

constraints. "David Bull and Fan Zhang have written a timely and accessible book on the topic of image and video compression. Compression of visual signals is one of the great technological achievements of modern times, and has made possible the great successes of streaming and social media and digital cinema. Their book, Intelligent Image and Video Compression covers all the salient topics ranging over visual perception, information theory, bandpass transform theory, motion estimation and prediction, lossy and lossless compression, and of course the compression standards from MPEG (ranging from H.261 through the most modern H.266, or VVC) and the open standards VP9 and AV-1. The book is replete with clear explanations and

figures, including color where appropriate, making it quite accessible and valuable to the advanced student as well as the expert practitioner. The book offers an excellent glossary and as a bonus, a set of tutorial problems. Highly recommended! --Al Bovik An approach that combines algorithmic rigor with practical implementation using numerous worked examples Explains how video compression methods exploit statistical redundancies, natural correlations, and knowledge of human perception to improve performance Uses contemporary video coding standards (AVC, HEVC and VVC) as a vehicle for explaining block-based compression Provides broad coverage of important topics such as visual quality assessment and video streaming

Technological Innovations in Knowledge Management and Decision Support SPIE Press

This unique reference presents in-depth coverage of the latest methods and applications of digital image processing describing various computer architectures ideal for satisfying specific image processing demands.

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Cardiovascular Nuclear Medicine and MRI MDPI

The enormous growth in the field of biotechnology necessitates the utilization of information technology for the management, flow and organization of data. The field continues to evolve with the development of new applications to fit the needs of the biomedicine. From molecular imaging to healthcare knowledge management, the storage, access and analysis of data contributes significantly to biomedical research and practice. All biomedical professionals can benefit from a greater understanding of how data can be efficiently managed and utilized through data compression, modelling, processing, registration, visualization, communication, and large-scale

biological computing. In addition Biomedical Information Technology contains practical integrated clinical applications for disease detection, diagnosis, surgery, therapy, and biomedical knowledge discovery, including the latest advances in the field, such as ubiquitous M-Health systems and molecular imaging applications. The world's most recognized authorities give their "best practices" ready for implementation Provides professionals with the most up to date and mission critical tools to evaluate the latest advances in the field and current integrated clinical applications Gives new staff the technological fundamentals and updates experienced professionals with the latest practical integrated clinical applications

Some Aspects of Image Processing CRC Press

The hand is quicker than the eye. In many cases, so is digital video. Maintaining image quality in bandwidth- and memory-restricted environments is quickly becoming a reality as thriving research delves ever deeper into perceptual coding techniques, which discard superfluous data that humans cannot process or detect. Surveying the topic from a Human Visual System (HVS)-based approach, Digital Video Image Quality and Perceptual Coding outlines the principles, metrics, and standards associated with perceptual coding, as well as the latest techniques and applications. This book is divided broadly into three parts. First, it introduces the fundamental theory,

concepts, principles, and techniques underlying the field, such as the basics of compression, HVS modeling, and coding artifacts associated with current well-known techniques. The next section focuses on picture quality assessment criteria; subjective and objective methods and metrics, including vision model based digital video impairment metrics; testing procedures; and international standards regarding image quality. Finally, practical applications come into focus, including digital image and video coder designs based on the HVS as well as post-filtering, restoration, error correction, and concealment techniques. The permeation of digital images and video throughout the world cannot be understated. Nor can the importance of preserving quality while

using minimal storage space, and Digital Video Image Quality and Perceptual Coding provides the tools necessary to accomplish this goal. Instructors and lecturers wishing to make use of this work as a textbook can download a presentation of 786 slides in PDF format organized to augment the text. accompany our book (H.R. Wu and K.R. Rao, Digital Video Image Quality and Perceptual Coding, CRC Press (ISBN: 0-8247-2777-0), Nov. 2005) for lecturers or instructor to use for their classes if they use the book.

Digital Pictures Springer Science & Business Media

- Martin Walker: New Paradigms for Computational Science - Yong Shi: Multiple Criteria Mathematical Program

ming and Data Mining - Hank Childs: Why Petascale Visualization and Analysis Will Change the Rules - Fabrizio Gagliardi: HPC Opportunities and Challenges - Science - Pawel Gepner: Intel's Technology Vision and Products for HPC - Jarek Nieplocha: Integrated Data and Task Management for Scientific Applications - Neil F. Johnson: What Do Financial Markets, World of Warcraft, and the War in Iraq, all Have in Common? Computational Insights into Human Crowd Dynamics We would like to thank all keynote speakers for their interesting and inspiring talks and for submitting the abstracts and papers for these proceedings. Fig. 1. Number of papers in the general track by topic The main track of ICSS 2008 was divided into approximately 20 parallel sessions (see

Fig. 1) addressing the following topics: 1. e-Science Applications and Systems 2. Scheduling and Load Balancing 3. Software Services and Tools Preface VII 4. New Hardware and Its Applications 5. Computer Networks 6. Simulation of Complex Systems 7. Image Processing and Visualization 8. Optimization Techniques 9. Numerical Linear Algebra 10. Numerical Algorithms # papers 25 23 19 20 17 14 14 15 10 10 10 10 9 10 8 8 8 7 5 0 Fig. 2. Number of papers in workshops The conference included the following workshops (Fig. 2): 1. 7th Workshop on Computer Graphics and Geometric Modeling 2. 5th Workshop on Simulation of Multiphysics Multiscale Systems 3. 3rd Workshop on Computational Chemistry and Its Applications 4. Workshop on

Computational Finance and Business Intelligence 5. Workshop on Physical, Biological and Social Networks 6. Workshop on GeoComputation 7. 2nd Workshop on Teaching Computational Science 8.

Algorithms and Applications Springer Science & Business Media

This book presents a selection of papers representing current research on using field programmable gate arrays (FPGAs) for realising image processing algorithms. These papers are reprints of papers selected for a Special Issue of the Journal of Imaging on image processing using FPGAs. A diverse range of topics is covered, including parallel soft processors, memory management, image filters, segmentation, clustering, image analysis, and image compression.

Applications include traffic sign recognition for autonomous driving, cell detection for histopathology, and video compression. Collectively, they represent the current state-of-the-art on image processing using FPGAs.

Discrete Wavelet Transforms Artech House

New edition of a text intended primarily for the undergraduate courses on the subject which are frequently found in electrical engineering curricula--but the concepts and techniques it covers are also of fundamental importance in other engineering disciplines. The book is structured to develop in parallel the methods of analysis for continuous-time and discrete-time signals and systems, thus allowing exploration of their similarities and differences. Discussion of

applications is emphasized, and numerous worked examples are included. Annotation copyrighted by Book News, Inc., Portland, OR

Binary Digital Image Processing Elsevier

Organizations are showing a remarkable interest in realizing knowledge management technologies and processes to adopt knowledge management as part of their overall strategy. However, even with the current advancement in technology, few organizations are entirely capable of developing critical organizational knowledge to achieve improved performance. Technological Innovations in Knowledge Management and Decision Support is a vital research publication that examines different knowledge

management areas for organizational competitiveness, survival, and effectiveness. It also provides cutting-edge research techniques in related optimization methods and other automated techniques in real-world processes. Featuring a broad range of topics such as enterprise resource planning, neural networks, and image segmentation, this book is a critical resource for managers, IT specialists, healthcare and social sciences professionals, engineers, academicians, and researchers seeking research on effective knowledge management systems.

REVIEW OF DIGITAL

PICTURES REPRESENTATION COMPRESSION AND STANDARDS APPLICATIONS OF COMMUNICATIONS THEORY

- I don't understand why anyone would want to read this book. I picked it up because I am interested in Umbria and hoped for a good story which took place in that area of Italy. The book was boring and unbelievable; I kept waiting for something to happen, but it never did. I would not recommend this book.
- i love the story. i am a teenage girl and i could really relate to the book. the story is very interesting and one you can really get into. if you like romance stories you'll absolutly love this one. i

would deffinatly recomend this book.