

Efficient Algorithms for MPEG Video Compression

DZUNG TIEN HOANG
JEFFREY SCOTT VITTER

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Efficient Algorithms For Mpeg Video Compression

Nikil Jayant



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Advances in Multimedia Information Processing - PCM 2005 Yo-Sung Ho, 2005-10-31 The two volume set LNCS 3767 and LNCS 3768 constitutes the refereed proceedings of the 6th Pacific Rim Conference on Multimedia PCM 2005 held in Jeju Island Korea in November 2005 The 181 revised papers presented were carefully reviewed and selected from a total of 570 submissions The papers cover a wide range of topics including all aspects of multimedia both technical and artistic perspectives and both theoretical and practical issues Besides papers that focus on traditional topics such as multimedia communications audio visual compressions multimedia security image and signal processing techniques and multimedia data processing there are also artistic papers which need not to be strictly technical

Handbook of Video Databases Borko Furht, Oge Marques, 2003-09-30 Technology has spurred the growth of huge image and video libraries many growing into the hundreds of terabytes As a result there is a great demand among organizations for the design of databases that can effectively support the storage search retrieval and transmission of video data Engineers and researchers in the field demand a comprehensive reference that will help them design and implement the most complex video database projects Handbook of Video Databases Design and Applications presents a thorough overview in 45 chapters from more than 100 renowned experts in the field This book provides the tools to help overcome the problems of storage cataloging and retrieval by exploring content standardization and other content classification and analysis methods The challenge of these complex problems make this book a must have for video database practitioners in the fields of image and video processing computer vision multimedia systems data mining and many other diverse disciplines

Introduction to Digital Image Processing William K.

Pratt,2013-09-13 The subject of digital image processing has migrated from a graduate to a junior or senior level course as students become more proficient in mathematical background earlier in their college education With that in mind

Introduction to Digital Image Processing is simpler in terms of mathematical derivations and eliminates derivations of advanced s **Soft Computing Approach to Pattern Recognition and Image Processing** Ashish Ghosh,Sankar K.

Pal,2002 This volume provides a collection of sixteen articles containing review and new material In a unified way they describe the recent development of theories and methodologies in pattern recognition image processing and vision using fuzzy logic artificial neural networks genetic algorithms rough sets and wavelets with significant real life applications The book details the theory of granular computing and the role of a rough neuro approach as a way of computing with words and designing intelligent recognition systems It also demonstrates applications of the soft computing paradigm to case based reasoning data mining and bio informatics with a scope for future research The contributors from around the world present a balanced mixture of current theory algorithms and applications making the book an extremely useful resource for students and researchers alike Contents Pattern Recognition Multiple Classifier Systems Building Decision Trees from the Fourier Spectrum of a Tree Ensemble Clustering Large Data Sets Multi objective Variable String Genetic Classifier Application to Remote Sensing Imagery Image Processing and Vision Dissimilarity Measures Between Fuzzy Sets or Fuzzy Structures Early Vision Concepts and Algorithms Self organizing Neural Network for Multi level Image Segmentation Geometric Transformation by Moment Method with Wavelet Matrix New Computationally Efficient Algorithms for Video Coding Soft Computing for Computational Media Aesthetics Analyzing Video Content for Meaning Granular Computing and Case Based Reasoning Towards Granular Multi agent Systems Granular Computing and Pattern Recognition Case Base Maintenance A Soft Computing Perspective Real Life Applications Autoassociative Neural Network Models for Pattern Recognition Tasks in Speech and Image Protein Structure Prediction Using Soft Computing Pattern Classification for Biological Data Mining Readership Upper level undergraduates graduates researchers academics and industrialists Modular System Design and

Evaluation Mark Sh. Levin,2014-09-06 This book examines seven key combinatorial engineering frameworks composite schemes consisting of algorithms and or interactive procedures for hierarchical modular composite systems These frameworks are based on combinatorial optimization problems e g knapsack problem multiple choice problem assignment problem morphological clique problem with the author s version of morphological design approach Hierarchical Morphological Multicriteria Design HMMD providing a conceptual lens with which to elucidate the examples discussed This approach is based on ordinal estimates of design alternatives for systems parts components however the book also puts forward an original version of HMMD that is based on new interval multiset estimates for the design alternatives with special attention paid to the aggregation of modular solutions system versions The second part of Modular System Design and Evaluation provides ten information technology case studies that enriches understanding of the design of system design

detection of system bottlenecks and system improvement amongst others The book is intended for researchers and scientists students and practitioners in many domains of information technology and engineering The book is also designed to be used as a text for courses in system design systems engineering and life cycle engineering at the level of undergraduate level graduate PhD levels and for continuing education The material and methods contained in this book were used over four years in Moscow Institute of Physics and Technology State University in the author s faculty course System Design

Multimedia Signals and Systems Mrinal Kr. Mandal, 2012-12-06 Multimedia Signals and Systems is primarily a technical introductory level multimedia textbook including problems examples and MATLAB codes It will be a stepping stone for readers who want to research in audio processing image and video processing and data compression This book will also be useful to readers who are carrying out research and development in systems areas such as television engineering and storage media Anyone who seeks to learn the core multimedia signal processing techniques and systems will need Multimedia Signals and Systems There are many chapters that are generic in nature and provide key concepts of multimedia systems to technical as well as non technical persons There are also several chapters that provide a mathematical analytical framework for basic multimedia signal processing The readers are expected to have some prior knowledge about discrete signals and systems such as Fourier transform and digital filters However a brief review of these theories is provided Additional material for this book including several MATLAB codes along with a few test data samples e g audio image and video may be downloaded from <http://extras.springer.com>

Soft Computing Approach Pattern Recognition And Image Processing Ashish Ghosh, Sankar Kumar Pal, 2002-11-25 This volume provides a collection of sixteen articles containing review and new material In a unified way they describe the recent development of theories and methodologies in pattern recognition image processing and vision using fuzzy logic artificial neural networks genetic algorithms rough sets and wavelets with significant real life applications The book details the theory of granular computing and the role of a rough neuro approach as a way of computing with words and designing intelligent recognition systems It also demonstrates applications of the soft computing paradigm to case based reasoning data mining and bio informatics with a scope for future research The contributors from around the world present a balanced mixture of current theory algorithms and applications making the book an extremely useful resource for students and researchers alike

Information Security Masahiro Mambo, Yuliang Zheng, 2003-07-31 This book constitutes the refereed proceedings of the Second International Information Security Workshop ISW 99 held in Kuala Lumpur Malaysia in November 1999 The 23 revised full papers presented were carefully reviewed and selected from 38 submissions The book is divided in topical sections on electronic money electronic payment and unlinkability secure software components mobile agents and authentication network security digital watermarking protection of software and data key recovery and electronic voting and digital signatures

Motion Estimation for Video Coding Indrajit Chakrabarti, Kota Naga Srinivasarao Batta, Sumit Kumar Chatterjee, 2015-01-13 The need of video compression in the modern age of visual communication cannot

be over emphasized This monograph will provide useful information to the postgraduate students and researchers who wish to work in the domain of VLSI design for video processing applications In this book one can find an in depth discussion of several motion estimation algorithms and their VLSI implementation as conceived and developed by the authors It records an account of research done involving fast three step search successive elimination one bit transformation and its effective combination with diamond search and dynamic pixel truncation techniques Two appendices provide a number of instances of proof of concept through Matlab and Verilog program segments In this aspect the book can be considered as first of its kind The architectures have been developed with an eye to their applicability in everyday low power handheld appliances including video camcorders and smartphones

Broadband Last Mile Nikil Jayant, 2018-10-03 Broadband Last Mile Access Technologies for Multimedia Communications provides in depth treatments of access technologies and the applications that rely upon them or support them It examines innovations and enhancements along multiple dimensions in access with the overarching goal of ensuring that the last mile is not the weak link in the broadband chain Written by experts from the academic and commercial segments of the field the book's self contained sections address topics related to the disciplines of communications networking computing and signal processing The core of this treatment contains contemporary reviews of broadband pipes in the classes of copper cable fiber wireless and satellite It emphasizes the coexistence of these classes within a network the importance of optical communications for unprecedented bandwidth and the flexibility and mobility provided by wireless The book also includes perspective on the increasingly important topic of network management providing insights that are true regardless of the nature of the pipe The text concludes with a discussion of newly emerging applications and broadband services This book offers an all in one treatment of the physical pipes and network architectures that make rich and increasingly personalized applications possible It serves as a valuable resource for researchers and practitioners working in the increasingly pervasive field of broadband

Lossless Compression Handbook Khalid Sayood, 2002-12-18 The 21 chapters in this handbook are written by the leading experts in the world on the theory techniques applications and standards surrounding lossless compression As with most applied technologies the standards section is of particular importance to practicing design engineers In order to create devices and communication systems that can communicate and be compatible with other systems and devices standards must be followed Clearly explains the process of compression and transmission of multimedia signals Invaluable resource for engineers dealing with image processing signal processing multimedia systems wireless technology and more

The Computer Engineering Handbook Vojin G. Oklobdzija, 2001-12-26 There is arguably no field in greater need of a comprehensive handbook than computer engineering The unparalleled rate of technological advancement the explosion of computer applications and the now in progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own References published only a few years ago are now sorely out of date The Computer Engineering Handbook

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IPTV Crash Course Joseph Weber, Tom Newberry, 2007 IPTV is the technology used on the wildly popular video iPods

Multimedia Communications Jerry D. Gibson, 2000-10-31 The rapid advances and industry demands for networked delivery of information and pictures through computer networks and cable television has created a need for new techniques and standards for the packaging and delivery of digital information Multimedia Communications presents the latest information from industry and academic experts on all standards methods and protocols Internet protocols for wireless communications transcoding of Internet multimedia for universal access ATM and ISDN chapters videoconferencing standards speech and audio coding standards multi casting and image compression techniques are included Latest Internet protocols for wireless communications Transcoding of Internet multimedia for universal access ATM and ISDN chapters Videoconferencing standards Speech and audio coding standards Multi casting Latest image compression techniques

Digital Video Transcoding for Transmission and Storage Huifang Sun, Tihao Chiang, Xuemin Chen, 2018-10-03 Professionals in the video and multimedia industries need a book that explains industry standards for video coding and how to convert the compressed information between standards Digital Video Transcoding for Transmission and Storage answers this demand while also supplying the theories and principles of video compression and transcoding technologies Emphasizing digital video transcoding techniques this book summarizes its content via examples of practical methods for transcoder implementation It relates almost all of its featured transcoding technologies to practical applications This volume takes a structured approach starting with basic video transcoding concepts and progressing toward the most sophisticated systems It summarizes material from research papers lectures and presentations Organized into four parts the text first provides the background of video coding theory principles of video transmission and video coding standards The second part includes three chapters that explain the theory of video transcoding and practical problems The third part

explores buffer management packet scheduling and encryption in the transcoding The book concludes by describing the application of transcoding universal multimedia access with the emerging MPEG 21 standard and the end to end test bed

Advanced Concepts for Intelligent Vision Systems Wilfried Philips,Dan Popescu,Paul Scheunders,2005-10-05

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