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MPEG-2 Digital Video Coding Standard

Dihong Tian

dhtian@ece.gatech.edu

<http://users.ece.gatech.edu/dhtian>

ECE 8873 – Data Compression and Modeling

Georgia Institute of Technology

Digital Video An Introduction To Mpeg

Erik Dahlman, Ed da Silva, Ron Olexa, Bruno Clerckx, Luis M. Correia, Philip A Chou, Mihaela van der Schaar, W. K. Ling, Ronald Kitchen, Daniel M. Dobkin, Dan Bensky, Claude Oestges, David Morgan, Juanita Ellis, Charles Pursell, Joy Rahman, Leonidas Guibas, Feng Zhao, Alan C. Bovik, Bruce A. Fette, Keith Jack, Farid Dowla, Stefan Parkvall, Johan Skold, Casimer DeCusatis

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Digital Video: An Introduction to MPEG-2 Barry G. Haskell, Atul Puri, Arun N. Netravali, 2007-05-08 Digital Video offers comprehensive coverage of the MPEG 2 audio visual digital compression standard The treatment includes the specifics needed to implement an MPEG 2 Decoder including the syntax and semantics of the coded bitstreams Since the MPEG 2 Encoders are not specified by the standard and are actually closely held secrets of many vendors the book only outlines the fundamentals of encoder design and algorithm optimization

Introduction to MPEG-7 B. S. Manjunath, Philippe Salembier, Thomas Sikora, 2002-06-14 Introduction to MPEG 7 Ein unentbehrliches Nachschlagewerk für Elektronik und Kommunikationsingenieure die MPEG 7 kompatible Systeme entwerfen und implementieren wollen sowie für Forscher und Studenten die sich mit Multimedia Datenbanktechnologie beschäftigen Prinzipien und Konzepte der Indizierung von audiovisuellem Material Metadatenbeschreibung Informationsabfrage und Browsing sind einige der angesprochenen Themen Detailliert wird auf die wichtigsten Tools zur Indizierung und zum Abruf von Bildern und Videosequenzen eingegangen Die mitgelieferte Demo Software führt schrittweise in die Multimedia Systemkomponenten ein

The MPEG Handbook John Watkinson, 2012-09-10 A complete professional bible on all aspects of audio and video compression using MPEG technology including the MPEG 4 standard and in this second edition H 264 The clarity of explanation and depth of technical detail combine to make this book an essential and definitive reference work THE MPEG HANDBOOK is both a theoretical and practical treatment of the subject Fundamental knowledge is provided alongside practical guidance on how to avoid pitfalls and poor quality The often neglected issues of reconstructing the signal timebase at the decoder and of synchronizing the signals in a multiplex are treated fully here Previously titled MPEG 2 the book is frequently revised to cover the latest applications of the technology

Introduction to Digital Video John Watkinson, 2012-09-10 Covers the essential fundamentals of digital video from video principles to conversion compression coding interfaces and output Written for television professionals needing to apply digital video systems equipment and techniques to multimedia and or digital TV applications as well as for computer system designers engineers programmers or technicians needing to learn how to apply digital video to computer systems and applications The text is based on the acclaimed industry bible The Art of Digital Video but covers only the essential parts of this larger reference work It starts right from the basics from what a digital signal is to the how digital video can be applied John Watkinson is an international consultant in Audio Video and Data Recording He is a fellow of the AES a member of the British Computer Society and Chartered Information Systems Practitioner He presents lectures seminars conference papers and training courses worldwide He is author of many other Focal press books including MPEG2 Art of Digital Video Art of Digital Audio Art of Sound Reproduction Introduction to Digital Audio Television Fundamentals and Audio for Television He is also co author of the Digital Interface Handbook and a contributor to The Loudspeaker and Headphone Handbook

Digital Video Compression Peter D. Symes, 2004 CD ROM contains

compression tools encoders and video clips **DIGITAL VIDEO COMPRESSION STANDARD** PURI ATUL,1998-06-01

Introduction to Multimedia Communications Kamisetty Rao,Zoran Bojkovic,Dragorad Milovanovic,2006-02-02 A comprehensive resource on multimedia communications Covers recent trends and standardization activities in multimedia communications such as layered structures underlying theories and the current best design techniques Describes the convergence of various technologies including communications broadcasting information technology and home electronics and emerging new communication services and applications resulting from the growth of the Internet and wireless technologies Please go to www.ee.uta.edu/dip for additional information **Introduction to MPEG;** Lawrence Harte,April Wiblitzhouser,Tomas Pazderka,2006 This book explains the fundamentals of how MPEG works and how MPEG is used in cable television satellite systems mobile telecom and Internet television systems You will discover the basics of audio and video digitization and compression and the standard formats that are used in MPEG files Introduction to MPEG explains the processes that control media flow and timing synchronization along with how MPEG transmission can monitor and control audio and video quality You will discover about video compression streaming services and media control protocols MPEG has the capability of providing multiple media channels including data channels that can provide media information such as play list titles artists and media descriptions You will learn how these channels are combined and time synchronized along with how to manage quality of service QoS You will learn how MPEG audio coders can range from low complexity layer 1 to high complexity layer 3 including a new AAC that has improved compression performance than MP3 MPEG video coders range from simple digital video compression technologies used in MPEG 1 to complex multi object compression used in MPEG 4 Various compression technologies such as motion estimation and compression scalability are described Discover how the MPEG system groups image elements pixels within each image frame into small blocks which are grouped into macroblocks Macroblocks can be combined into slices and each image may contain several slices Learn how slices make up frames which come in several different types and how different types of frames can be combined into a group of pictures GOP Explanations of how MPEG transmission can combine send and manage the transmission of multiple forms of information multimedia is also provided You will learn that MPEG systems are composed of various types of streams ranging from the basic raw data stream elementary streams to stream that contain a single television video a program stream or a stream that combines multiple programs transport streams The different frame types including independent reference frames I frames predicted frames P frames bi directionally predicted frames B Frames and DC frames basic block reference levels are described Learn how MPEG transmission systems regularly broadcast tables that describe programs program components or other information that is related to the delivery and decoding of programs Discover how MPEG standards use profiles to define required protocols and actions that enable the providing of features and services for particular MPEG applications These applications range from providing standard television services over a broadcast system to providing video services on a

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Multiplexing Profiles and Levels *The MPEG Handbook* John Watkinson,2001 The MPEG Handbook previously entitled MPEG 2 has been fully revised to cover all the latest standards including a description of MPEG4 and the latest applications relating to audio video and the Internet *The MPEG-21 Book* Ian S. Burnett,Fernando Pereira,Rik Van de Walle,Rob Koenen,2006-08-04 Understand the MPEG 21 Multimedia Framework the standard for the creation delivery and consumption of multimedia This text is the comprehensive guide to MPEG 21 the technology that provides an open framework for multimedia applications Whereas previous MPEG standards defined compression techniques MPEG 21 offers methods for the search access storage and Rights protection of content The MPEG 21 Book offers a complete introduction to standardisation before proceeding to discuss the vision behind MPEG 21 what Digital Items are how they are adapted and how their contents can be protected The book provides coverage of the individual parts of the standard to an advanced level with chapters dedicated to each of the core technologies The authors describe not only the present situation but also emerging developments and the relation of MPEG 21 to the other MPEG standards giving essential insights into the future of MPEG and its impact on multimedia The MPEG 21 Book Provides an accessible explanation of the MPEG 21 standards and specifications Presents a comprehensive overview of the technical issues that MPEG 21 covers including the foundational Digital Item Declaration Digital Item Identification Digital Item Adaptation and Digital Item Processing Offers in depth and up to date coverage of Rights Expression Language and Rights Data Dictionary Provides first detailed treatments of Event Reporting and IPMP Components Reviews the new MPEG technologies Multimedia Middleware Multimedia Application Formats MAFs and Digital Item Streaming The MPEG 21 Book will provide an essential resource to researchers engineers Internet designers systems designers and content providers creators and distributors in the entertainment and broadcasting industries Students in communications technology media technology and multimedia signal processing will also find it an invaluable guide to this cutting edge technology **Computer Vision and Graphics** Leonard Bolc,Konrad Wojciechowski,Ryszard Tadeusiewicz,Leszek J. Chmielewski,2012-10-13 This book constitutes the refereed proceedings of the International Conference on Computer Vision and Graphics ICCVG 2012 held in Warsaw Poland in September 2012 The 89 revised full papers presented were carefully reviewed and selected from various submissions The papers are organized in topical sections on computer graphics computer vision and visual surveillance *The Essential Guide to Video Processing* Alan C. Bovik,2009-07-07 This comprehensive and state of the art approach to video processing gives engineers and students a comprehensive introduction and includes full coverage of key applications wireless video video networks video indexing and retrieval and use of video in speech processing Containing all the essential methods in video processing alongside the latest standards it is a complete resource for the professional engineer researcher and graduate student Numerous conceptual and numerical examples All the latest standards are thoroughly covered MPEG 1 MPEG 2 MPEG 4 H 264 and AVC Coverage of the latest techniques in video security Like its sister volume *The Essential Guide to Image Processing*

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Prof. Bernd Girod, Stanford University, USA. Edited by a leading person in the field who created the IEEE International Conference on Image Processing with contributions from experts in their fields. Numerous conceptual and numerical examples. All the latest standards are thoroughly covered: MPEG-1, MPEG-2, MPEG-4, H.264, and AVC. Coverage of the latest techniques in video security.

Communications Engineering e-Mega Reference, Erik Dahlman, Ed da Silva, Ron Olexa, Bruno Clerckx, Luis M. Correia, Philip A. Chou, Mihaela van der Schaar, W. K. Ling, Ronald Kitchen, Daniel M. Dobkin, Dan Bensusky, Claude Oestges, David Morgan, Juanita Ellis, Charles Pursell, Joy Rahman, Leonidas Guibas, Feng Zhao, Alan C. Bovik, Bruce A. Fette, Keith Jack, Farid Dowl, Stefan Parkvall, Johan Skold, Casimer DeCusatis, 2009-03-23. A one-stop desk reference for R. This is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material covers a wide scope of topics including voice, computer, facsimile, video, and multimedia data technologies. A fully searchable Mega Reference Ebook providing all the essential material needed by Communications Engineers on a day-to-day basis. Fundamentals, key techniques, engineering best practice, and rules of thumb together in one quick reference. Over 2,500 pages of reference material including over 1,500 pages not included in the print edition.

Multimedia Systems and Applications, 2001. *Digital Video Compression*, Vasudev Bhaskaran, Frans Sijstermans, Sethuraman Panchanathan, 1996. **Digital Watermarking**, Hyoung Joong Kim, Stefan Katzenbeisser, Anthony T. S. Ho, 2009-09-29. This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Workshop on Digital Watermarking (IWDW 2008) held in Busan, Korea, in November 2008. The 36 regular papers included in the volume were carefully reviewed and selected from 62 submissions. Areas of interest to the conference are: mathematical modeling of embedding and detection; information theoretic stochastic aspects of data hiding; security issues including attacks and counter attacks; combination of data hiding and cryptography; optimum watermark detection and reliable recovery; estimation of watermark capacity; channel coding techniques for watermarking; large-scale experimental tests and benchmarking; new statistical and perceptual models of content; reversible data hiding; data hiding in special media; data hiding and authentication; steganography and steganalysis; data forensics; copyright protection; DRM and forensic watermarking; and visual cryptography.

MPEG Video Compression Standard, Joan L. Mitchell, 1997. This book gives the professional and student one place to look for answers and guidance on MPEG. It incorporates low-level as well as sophisticated reviews of the major technical elements and includes sufficient tutorial material that even naive users should be able to understand the answers to their MPEG questions. It contains many pictorial examples so that the benefits and limits of MPEG can be estimated from the data in the book. The full functionality of the entire MPEG standard is explained. Guidance is given about the purpose behind some of the choices and implementers. Particular emphasis is placed on the image

compression of the MPEG standard

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