THE MPEG-4 BOOK

Edited by **Fernando Pereira** and **Touradj Ebrahimi**

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Iain E. Richardson

The Mpeg 4 Book The Mpeg 4 Book:

The MPEG-4 Book Fernando C. N. Pereira,Touradj Ebrahimi,2002 In this book two leaders of the MPEG 4 standards community offer an in depth targeted guide to the MPEG 4 standard and its use in real cutting edge applications The authors demonstrate how MPEG 4 addresses the rapidly evolving needs of telecommunications broadcast interactive and converged applications more successfully than any previous standard **H.264 and MPEG-4 Video Compression** Iain E. Richardson,2004-02-06 Following on from the successful MPEG 2 standard MPEG 4 Visual is enabling a new wave of multimedia applications from Internet video streaming to mobile video conferencing The new H 264 Advanced Video Coding standard promises impressive compression performance and is gaining support from developers and manufacturers The first book to cover H 264 in technical detail this unique resource takes an application based approach to the two standards and the coding concepts that underpin them Presents a practical step by step guide to the MPEG 4 Visual and H 264 standards for video compression Introduces the basic concepts of digital video and covers essential background material required for an understanding of both standards Provides side by side performance comparisons of MPEG 4 Visual and H 264 and advice on how to approach and interpret them to ensure conformance Examines the way that the standards have been shaped and developed discussing the composition and procedures of the VCEG and MPEG standardisation groups Focussing on compression tools and profiles for practical multimedia applications this book decodes the standards enabling developers researchers engineers and students to rapidly get to grips with both H 264 and MPEG 4 Visual Dr Iain Richardson leads the Image Communication Technology research group at the Robert Gordon University in Scotland and is the author of over 40 research papers and two previous books on video compression technology **The MPEG-4 Book** F. Pereira ((Fernando Manuel Bernardo)),2002 *MPEG-4 Beyond Conventional Video Coding* Mihaela Schaar,Deepak S Turaga,Thomas Stockhammer,2022-05-31 An important merit of the MPEG 4 video standard is that it not only provided tools and algorithms for enhancing the compression efficiency of existing MPEG 2 and H 263 standards but also contributed key innovative solutions for new multimedia applications such as real time video streaming to PCs and cell phones over Internet and wireless networks interactive services and multimedia access Many of these solutions are currently used in practice or have been important stepping stones for new standards and technologies In this book we do not aim at providing a complete reference for MPEG 4 video as many excellent references on the topic already exist Instead we focus on three topics that we believe formed key innovations of MPEG 4 video and that will continue to serve as an inspiration and basis for new emerging standards products and technologies The three topics highlighted in this book are object based coding and scalability Fine Granularity Scalability and error resilience tools This book is aimed at engineering students as well as professionals interested in learning about these MPEG 4 technologies for multimedia streaming and interaction Finally it is not aimed as a substitute or manual for the MPEG 4 standard but rather as a tutorial focused on the principles and algorithms underlying it

H.264 and MPEG-4 Video Compression Iain E. Richardson,2008 **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 **Understanding MPEG 4** Sebastian Moeritz,Klaus Diepold,2012-09-10 The Practical Guide to MPEG 4 offers an up to date introduction to this important interactive and multimedia compression standard including MPEG 4 Part 10 with real examples and information as to how and where this new technology should be used All aspects of MPEG 4 that are relevant in today s technical landscape are described in this book including video and audio creation production distribution reception and consumption environment This book explains everything you really need to know in jargon free language interactive systems content management deployment licensing and business models

MPEG-4 Jump-start Aaron E. Walsh,Mikaël Bourges-Sévenier,2002 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE *MPEG-4 Beyond Conventional Video Coding* Mihaela Van Der Schaar,Deepak S. Turaga,Thomas Stockhammer,2006 *Delivering MPEG-4 Based Audio-Visual Services* Hari Kalva,2001 Delivering MPEG 4 Based Audio Visual Services investigates the different aspects of end to end multimedia services content creation server and service provider network and the end user terminal Part I provides a comprehensive introduction to digital video communications MPEG standards and technologies and deals with system level issues including standardization and interoperability user interaction and the design of a distributed video server Part II investigates the systems in the context of object based multimedia services and presents a design for an object based audio visual terminal some of these features having been adopted by the MPEG 4 Systems specification The book goes on to study the requirements for a file format to represent object based audio visual content and the design of one such format The design introduces new concepts such as direct streaming that are essential for scalable servers The final part of the book examines the delivery of object based multimedia presentations and gives optimal algorithms for multiplex scheduling of object based audio visual presentations showing that the audio visual object scheduling problem is NP complete in the strong sense The problem of scheduling audio visual objects is similar to the problem of sequencing jobs on a single machine The book compares these problems and adapts job sequencing results to audio visual object scheduling and provides optimal algorithms for scheduling presentations under resource constraints such as bandwidth network constraints and buffer terminal constraints In addition the book presents algorithms that minimize the resources required for scheduling presentations and the auxiliary capacity required to support

interactivity in object based audio visual presentations Delivering MPEG 4 Based Audio Visual Services is essential reading for researchers and practitioners in the areas of multimedia systems engineering and multimedia computing network professionals service providers and all scientists and technical managers interested in the most up to date MPEG standards and technologies **Understanding MPEG 4** Sebastian Moeritz,Klaus Diepold,2012 The Practical Guide to MPEG 4 offers an up to date introduction to this important interactive and multimedia compression standard including MPEG 4 Part 10 with real examples and information as to how and where this new technology should be used All aspects of MPEG 4 that are relevant in today s technical landscape are described in this book including video and audio creation production distribution reception and consumption environment This book explains everything you really need to know in jargon free language interactive systems content management deployment licensing and business models *MPEG-4 Facial Animation* Igor S. Pandzic,Robert Forchheimer,2003-01-31 Provides several examples of applications using the MPEG 4 Facial Animation standard including video and speech analysis Covers the implementation of the standard on both the encoding and decoding side Contributors includes individuals instrumental in the standardization process MPEG4 Performance Analysis Venkata S. Tumati,2004 The H.264 Advanced Video Compression Standard Iain E. Richardson,2011-08-24 H 264 Advanced Video Coding or MPEG 4 Part 10 is fundamental to a growing range of markets such as high definition broadcasting internet video sharing mobile video and digital surveillance This book reflects the growing importance and implementation of H 264 video technology Offering a detailed overview of the system it explains the syntax tools and features of H 264 and equips readers with practical advice on how to get the most out of the standard Packed with clear examples and illustrations to explain H 264 technology in an accessible and practical way Covers basic video coding concepts video formats and visual quality Explains how to measure and optimise the performance of H 264 and how to balance bitrate computation and video quality Analyses recent work on scalable and multi view versions of H 264 case studies of H 264 codecs and new technological developments such as the popular High Profile extensions An invaluable companion for developers broadcasters system integrators academics and students who want to master this burgeoning state of the art technology This book unravels the mysteries behind the latest H 264 standard and delves deeper into each of the operations in the codec The reader can implement simulate design evaluate optimize the codec with all profiles and levels The book ends with extensions and directions such as SVC and MVC for further research Professor K R Rao The University of Texas at Arlington co inventor of the Discrete Cosine Transform **The Handbook of MPEG Applications** Marios C. Angelides,Harry Agius,2010-11-11 This book provides a comprehensive examination of the use of MPEG 2 MPEG 4 MPEG 7 MPEG 21 and MPEG A standards providing a detailed reference to their application In this book the authors address five leading MPEG standards MPEG 2 MPEG 4 MPEG 7 MPEG 21 and MPEG A focusing not only on the standards themselves but specifically upon their application e g for broadcasting media personalised advertising and news multimedia collaboration digital rights management resource

adaptation digital home systems and so on including MPEG cross breed applications In the evolving digital multimedia landscape this book provides comprehensive coverage of the key MPEG standards used for generation and storage distribution and dissemination and delivery of multimedia data to various platforms within a wide variety of application domains It considers how these MPEG standards may be used the context of their use and how supporting and complementary technologies and the standards interact and add value to each other Key Features Integrates the application of five popular MPEG standards MPEG 2 MPEG 4 MPEG 7 MPEG 21 and MPEG A into one single volume including MPEG cross breed applications Up to date coverage of the field based on the latest versions of the five MPEG standards Opening chapter provides overviews of each of the five MPEG standards Contributions from leading MPEG experts worldwide Includes an accompanying website with supporting material www wiley com go angelides_mpeg This book provides an invaluable reference for researchers practitioners CTOs design engineers and developers Postgraduate students taking MSc MRes MPhil and PhD courses in computer science and engineering IT consultants and system developers in the telecoms broadcasting and publishing sectors will also find this book of interest   *Circuits and Systems in the Information Age* Yih-Fang Huang,1997   Platform-based Design and Chip Implementation of MPEG-4 Video Coding 邓水文,2002

Mastering Internet Video Damien Stolarz,2005 Guide to preparing capturing compressing securing and delivering internet video   *Optimisation of MPEG-4 video encoding* Josefa Subirats Roiget,Josep Ramon Casas Pla,1999

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 mobile wireless network Some of the most important topics featured are How MPEG Works Audio Compression Video Compression Digital Quantization Transmission Formats Media Streams Frame Types Program Tables Channel Multiplexing Profiles and Levels

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