

Video Codecs

Mohammed Ghanbari

Standard Codecs Mohammed Ghanbari, 2003 This book discusses the growth of digital television technology and the revolution in image and video compression (such as JPEG2000, broadcast TV, video phone), highlighting the need for standardisation in processing static and moving images and their exchange between computer systems.

Digital Video Coding for Next Generation Multimedia Shreyanka Subbarayappa, K. R. Rao, Humberto Ochoa Domínguez, 2021-07-31 This book is devoted to the theory and design of different algorithms used in the video codecs to obtain efficient implementation and reconstruction of codec outputs. It also addresses the most recent codecs being developed, i.e., VVC and EVC along with the reference codecs, i.e., H.264 and HEVC.

Video Codec Design Iain E. Richardson, 2002-05-22 Codec-Algorithmen werden zur Kodierung und Dekodierung (oder Komprimierung und Dekomprimierung) von Daten wie Videofilmen benutzt, ohne daß die visuelle Qualität des dekodierten Bildes beeinträchtigt wird. Bekannt sind zum Beispiel Codecs zur Konvertierung von analoger Videosignale in komprimierte Videodateien wie MPEG. Dieses Lehrbuch vermittelt Ihnen einen Überblick über einschlägige Standards und Technologien, der Schwerpunkt liegt auf Fragen des Designs. Einleuchtende qualitative und quantitative Vergleiche von Systemalternativen werden anhand von Fallstudien vorgenommen.

Video-Codecs Ralf Biebeler, 2013-08-08 Öffnet man heutzutage ein gängiges Schnittprogramm oder einen Konverter, so stellt man schnell fest, wie komplex die Arbeit mit Videos geworden ist - nicht nur in

punkto Schnitt, sondern auch im Export. Wo vor einigen Jahren nur eine handvoll Video-Codecs standen, tümmeln sich heute Dutzende. Im Internet kann man sich Packs mit Unmengen unterschiedlicher Codecs herunterladen. In diesem Metier den Überblick zu verlieren ist keine Schande. Dieses Buch soll sowohl Anfängern als auch Fortgeschrittenen einen Überblick über die Vielzahl an unterschiedlichen Möglichkeiten verschaffen, ein fertiges Video nach dem Schnitt zu exportieren. Viele Basisinformationen, aber auch fundiertes Fachwissen zu den gängigsten und wichtigsten Codecs der letzten Jahre werden anschaulich dargestellt und vermittelt. Dabei wird auf Standardcodecs wie MPEG1, MPEG2, Cinepak oder DV eingegangen. Aber auch auf weniger bekannte, jedoch durchaus leistungsfähige Codecs, wie der EnSharpenVideo Codec, oder Open-Source-Codecs, wie Dirac oder Matroska. Lernen Sie die einzelnen Containerformate wie AVI, QuickTime oder WMV kennen. Entdecken Sie die enormen Qualitäten von Sorenson 3, die Geschichte hinter Xvid oder die Vielfalt des MPEG4-Codecs. Dieses Buch erfüllt gleich mehrere Funktionen: Es ist ein Lexikon der Codecs und gleichzeitig ein Ratgeber, wann es Sinn macht welchen Codec zu verwenden.

Video Coding Mohammed Ghanbari, 1999 This study offers an introduction to video coding algorithms for readers in electronic engineering, media, broadcasting and transmission. The text works up from basic principles to the advanced video compression systems now being developed, including MPEG 1,2,4 and 7, JPEG, H.261 and H.263.

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

Complexity Optimized Video Codecs Michael Krause, 2005-11-16 Inhaltsangabe: Abstract: We are facing an increasing bandwidth in the mobile systems and this opens up for new applications in a mobile terminal. It will be possible to download, record, send and receive images and videosequences. Even if we have more bandwidth, images and video data must be compressed before it can be sent, because of the amount of information it contains. MPEG-4 and H.263 are standards for compression of video data. The problem is that

encoding and decoding algorithms are computationally intensive and complexity increases with the size of the video. In mobile applications, processing capabilities such as memory space and calculation time are limited and optimized algorithms for decoding and encoding are necessary. The question is if it is possible to encode raw video data with low complexity. Single frames e.g. from a digital camera, can then be coded and transmitted as a video sequence. On the other hand, the decoder needs to be able to handle sequences with different resolution. Thus, decoder in new mobile terminals must decode higher resolution sequences with the same complexity as low resolution video requires. The work will involve literature studies of MPEG-4 and H.263. The goal is to investigate the possibility to encode video data with low complexity and to find a way for optimized downscaling of larger sequences in a decoder. The work should include - Literature studies of MPEG-4 and H.263. - Theoretical study how CIF sequences (352x288-pixel) can be downscaled to QCIF (176x144-pixel) size. - Finding of optimized algorithms for a low complexity encoder. - Implementation of such an encoder in a microprocessor, e.g. a DSP. - Complexity analysis of processing consumption. Prerequisite experience is fair C-programming, signalprocessing skills and basic knowledge in H.263 and MPEG-4 is useful. New mobile communication standards provide an increased bandwidth, which opens up for many new media applications and services in future mobile phones. Video recording using the MMS standard, video conferencing and downloading of movies from the Internet are some of those applications. Even if the data rate is high, video data needs to be compressed using international video compression standards such as MPEG-4 or H.263. Efficient video compression algorithms are the focus of this thesis. Very limited computational capabilities of the terminals require low complexity encoder and

decoder. A low complexity encoder for usage with [...]

Video Compression Handbook Andy Beach, Aaron Owen, 2018-06-27 Video compression is not a new process; however, it is forever evolving. New standards, codecs, and ways of getting the job done are continually being created. Newcomers to video compression and seasoned veterans alike need to know how to harness the tools and use them for specific workflows for broadcast, the Web, Blu-rays, set-top boxes, digital cinema, and mobile devices. Here to guide you through the multitude of formats and confusing array of specifications, Andy Beach and Aaron Owen use a practical, straightforward approach to explaining video compression. After covering the fundamentals of audio and video compression, they explore the current applications for encoding, discuss the common workflows associated with each, and then look at the most common delivery platforms. The book includes examples from the authors' projects as well as recipes that offer a way to define some of the best practices of video compression today. This invaluable resource gives you: proven techniques for delivering video online, or via disc or other devices. clear, straightforward explanations that cut through the jargon. step-by-step instructions for using a wide variety of encoding tools. workflow tips for performing either stand-alone or batch compressions. insight and advice from top compression professionals sprinkled throughout.

Basic Prediction Techniques in Modern Video Coding Standards Byung-Gyu Kim, Kalyan Goswami, 2016-06-21 This book discusses in detail the basic algorithms of video compression that are widely used in modern video codec. The authors dissect complicated specifications and present material in a way that gets readers quickly up to speed by describing video compression algorithms succinctly, without going

to the mathematical details and technical specifications. For accelerated learning, hybrid codec structure, inter- and intra- prediction techniques in MPEG-4, H.264/AVC, and HEVC are discussed together. In addition, the latest research in the fast encoder design for the HEVC and H.264/AVC is also included.

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.

Compression for Great Video and Audio Ben Waggoner, 2013-02-11 Learn how to compress video and audio with optimal quality and minimal hassles. Renowned expert Ben Waggoner teaches you to improve the quality of your final content and develop effective workflows. Understand the basic concepts of vision and hearing, apply that knowledge in the context of compression, then move onto practical, applicable information for creating, editing, and compressing the best video and audio, whether you're delivering for the web, DVD, Blu-ray, phones, or beyond. Clear examples of how to make the best choices in real-world projects Covers Mac and Windows products for a complete look at today's compression technologies: all the different tools, codecs, and formats for different kinds of deliverables are described, focusing on how to pick the right options for particular projects, players, and sources Formats Windows Media QuickTime Flash FLV and F4V MPEG-4 and H.264 MPEG-2 Ogg Vorbis and Theora Silverlight and Smooth Streaming Devices iPod and iPhone Zune HD Playstation Portable Playstation 3 Xbox 360 DVD and Blu-ray

Real-Time Video Compression Raymond Westwater, Borko Furht, 2007-08-28 Real-Time Video Compression: Techniques and Algorithms introduces the XYZ video compression technique, which operates in three dimensions, eliminating the overhead of motion estimation. First, video compression standards, MPEG and H.261/H.263, are described. They both use asymmetric compression algorithms, based on motion estimation. Their encoders are much more complex than decoders. The XYZ technique uses a symmetric algorithm, based on the Three-Dimensional Discrete Cosine Transform (3D-DCT). 3D-DCT was originally suggested for compression about twenty years ago; however, at that time the computational complexity of the algorithm was too high, it required large buffer memory, and was not as effective as

motion estimation. We have resurrected the 3D-DCT-based video compression algorithm by developing several enhancements to the original algorithm. These enhancements make the algorithm feasible for real-time video compression in applications such as video-on-demand, interactive multimedia, and videoconferencing. The demonstrated results, presented in this book, suggest that the XYZ video compression technique is not only a fast algorithm, but also provides superior compression ratios and high quality of the video compared to existing standard techniques, such as MPEG and H.261/H.263. The elegance of the XYZ technique is in its simplicity, which leads to inexpensive VLSI implementation of any XYZ codec. *Real-Time Video Compression: Techniques and Algorithms* can be used as a text for graduate students and researchers working in the area of real-time video compression. In addition, the book serves as an essential reference for professionals in the field.

Video Compression Systems Alois Böck, 2009-07-02 This book gives an overview on many practical aspects of video compression systems used in broadcast TV, IPTV, telecommunication and many other video applications. Although the book concentrates on MPEG real-time video compression systems, many aspects are equally applicable to off-line and/or non-MPEG video compression applications.

Video Encoding by the Numbers Jan Lee Ozer, 2016-12-28 *Video Encoding by the Numbers* helps readers optimize the quality and efficiency of their streaming video by objectively detailing the impact of critical configuration options with industry-standard quality metrics like PSNR and SSIMplus. This takes the guesswork out of most encoding decisions and allows readers to achieve the optimal quality/data rate tradeoff. In addition, readers learn how to use tools like the Moscow University Video Quality

Measurement tool, SSIMWave Quality of Experience Monitor, and FFmpeg to perform similar quality tests on their own videos. Because all videos encode differently, the tests detailed in the book involve eight different videos, including movie footage, animations, talking head footage, a music video, and Powerpoint and Camtasia-based videos. Readers first learn how to determine the ideal data rate for their videos at different resolutions. Then the book covers configuration options like bitrate control (CBR, VBR) that impacts quality and deliverability, and I-Frame, B-Frame, and reference frame decisions that impact quality and encoding time. The next three chapters focus on codec-specific configurations like Profile and preset for H.264 and HEVC, and the various configuration options available for Google's VP9. Next the book details how to choose an adaptive bitrate (ABR) technology, how to create an encoding ladder, and the most efficient ways to encode and package video into different ABR formats. Working off the groundbreaking work by Netflix and YouTube, the final chapter teaches the reader how to use per-title encoding with their own videos to create the ideal encoding ladder for each video in their library. Each chapter concludes with a section detailing how to configure the options discussed with FFmpeg, a preferred tool for high-volume video producers, including packaging into HLS and DASH formats (the latter with MP4Box). Overall readers learn how to optimally configure their encoding ladders and how to produce their videos with FFmpeg.

How Video Works Diana Weynand, Vance Piccin, 2015-08-14 How Video Works raises the curtain on how video is created, scanned, transmitted, stored, compressed, encoded, delivered and streamed to its multitude of destinations. In today's digital world, every content creator—individual as well as network or

corporation—must understand the process of how video works in order to deliver not only the best quality video, but a digital video file with the most appropriate specifications for each particular use. This complete guide covers key stages of video development, from image capture to the final stages of delivery and archiving, as well as workflows and new technologies, including Ultra High Definition, metadata, signal monitoring, streaming and managing video files – all presented in an easy to understand way. Whether you are a professional or new video technician discovering the ins and outs of digital distribution, this book has the information you need to succeed. The updated third edition contains:

- New sections on image capture as well as streaming and video workflows
- A hands-on approach to using digital scopes and monitoring the video signal
- Thorough explanations of managing video files, including codecs and wrappers
- In-depth coverage of compression, encoding, and metadata
- A complete explanation of video and audio standards, including Ultra HD
- An overview of video recording and storage formats
- A complete glossary of terms for video, audio and broadcast

Video Codec Design, 2002 Video compression coding is the enabling technology behind a new wave of communication applications. From streaming internet video to broadcast digital television and digital cinema, the video codec is a key building block for a host of new multimedia applications and services. Video Codec Design sets out to de-mystify the subject of video coding and present a practical, design-based approach to this emerging field. Featuring: Guidance on the practical design and implementation of video coding technology. Explanation of the major video coding standards, including MPEG-2, MPEG-4, H.263 and H.26L. Detailed coverage of key video coding techniques and core algorithms. Examination of critical

design issues including transmission, Quality of Service and processing platforms. A wealth of illustrations and practical examples, including quantitative comparisons of design alternatives. Video Codec Design provides communications engineers, system designers, researchers and technical managers with an essential handbook to image and video compression technology.; The clear presentation and emphasis on real-life examples make this book an excellent teaching tool for computer science and electronic engineering instructors.

Video coding standards K.R. Rao, Do Nyeon Kim, Jae Jeong Hwang, 2013-10-07 The requirements for multimedia (especially video and audio) communications increase rapidly in the last two decades in broad areas such as television, entertainment, interactive services, telecommunications, conference, medicine, security, business, traffic, defense and banking. Video and audio coding standards play most important roles in multimedia communications. In order to meet these requirements, series of video and audio coding standards have been developed such as MPEG-2, MPEG-4, MPEG-21 for audio and video by ISO/IEC, H.26x for video and G.72x for audio by ITU-T, Video Coder 1 (VC-1) for video by the Society of Motion Picture and Television Engineers (SMPTE) and RealVideo (RV) 9 for video by Real Networks. AVS China is the abbreviation for Audio Video Coding Standard of China. This new standard includes four main technical areas, which are systems, video, audio and digital copyright management (DRM), and some supporting documents such as consistency verification. The second part of the standard known as AVS1-P2 (Video - Jizhun) was approved as the national standard of China in 2006, and several final drafts of the standard have been completed, including AVS1-P1 (System - Broadcast), AVS1-P2 (Video - Zengqiang),

AVS1-P3 (Audio - Double track), AVS1-P3 (Audio - 5.1), AVS1-P7 (Mobile Video), AVS-S-P2 (Video) and AVS-S-P3 (Audio). AVS China provides a technical solution for many applications such as digital broadcasting (SDTV and HDTV), high-density storage media, Internet streaming media, and will be used in the domestic IPTV, satellite and possibly the cable TV market. Comparing with other coding standards such as H.264 AVC, the advantages of AVS video standard include similar performance, lower complexity, lower implementation cost and licensing fees. This standard has attracted great deal of attention from industries related to television, multimedia communications and even chip manufacturing from around the world. Also many well known companies have joined the AVS Group to be Full Members or Observing Members. The 163 members of AVS Group include Texas Instruments (TI) Co., Agilent Technologies Co. Ltd., Envivio Inc., NDS, Philips Research East Asia, Aisino Corporation, LG, Alcatel Shanghai Bell Co. Ltd., Nokia (China) Investment (NCIC) Co. Ltd., Sony (China) Ltd., and Toshiba (China) Co. Ltd. as well as some high level universities in China. Thus there is a pressing need from the instructors, students, and engineers for a book dealing with the topic of AVS China and its performance comparisons with similar standards such as H.264, VC-1 and RV-9.

Developing Embedded Software Using DaVinci & OMAP Technology B.I. Pawate, 2009 This book discusses how to develop embedded products using DaVinci & OMAP Technology from Texas Instruments Incorporated. It presents a single software platform for diverse hardware platforms. DaVinci & OMAP Technology refers to the family of processors, development tools, software products, and support. While DaVinci Technology is driven by the needs of consumer video products such as IP network cameras,

networked projectors, digital signage and portable media players, OMAP Technology is driven by the needs of wireless products such as smart phones. Texas Instruments offers a wide variety of processing devices to meet our users' price and performance needs. These vary from single digital signal processing devices to complex, system-on-chip (SoC) devices with multiple processors and peripherals. As a software developer you question: Do I need to become an expert in signal processing and learn the details of these complex devices before I can use them in my application? As a senior executive you wonder: How can I reduce my engineering development cost? How can I move from one processor to another from Texas Instruments without incurring a significant development cost? This book addresses these questions with sample code and gives an insight into the software architecture and associated component software products that make up this software platform. As an example, we show how we develop an IP network camera. Using this software platform, you can choose to focus on the application and quickly create a product without having to learn the details of the underlying hardware or signal processing algorithms. Alternatively, you can choose to differentiate at both the application as well as the signal processing layer by developing and adding your algorithms using the xDAIS for Digital Media, xDM, guidelines for component software. Finally, you may use one code base across different hardware platforms. Table of Contents: Software Platform / More about xDM, VISA, & CE / Building a Product Based on DaVinci Technology / Reducing Development Cost / eXpressDSP Digital Media (xDM) / Sample Application Using xDM / Embedded Peripheral Software Interface (EPSI) / Sample Application Using EPSI / Sample Application Using EPSI and xDM / IP Network Camera on DM355 Using TI Software / Adding your

secret sauce to the Signal Processing Layer (SPL) / Further Reading

QuickTime for the Web Steven Gulie,2003-10-02 QuickTime is the industry standard for developing and distributing multimedia content on the Web and CD-ROM, for both Windows and Macintosh computers. This book includes QuickTime Pro 6 and a full set of content development tools for both Windows and Macintosh developers. This third edition of the best-selling and award-winning QuickTime for the Web is a hands-on guide showing how to integrate animation, video, recorded sound, MIDI, text, still images, VR, live streams, games, and user interactivity into a Web site. It now also covers how to benefit from QuickTime support for the MPEG-4 global multimedia standard. Written for Web masters, site designers, HTML and multimedia authors, and anyone else who wants to incorporate sound or video into their Web site, this book offers clear and detailed instruction in an engaging style. Written by an expert at Apple Computer, this is the most complete and authoritative source for creating QuickTime content for the Web. The first edition of this book won the Touchstone 2000 Merit Award for Books awarded annually by STC (Society for Technical Communications). Written for both Windows and Macintosh developers. Illustrates all the latest features in QuickTime Pro 6, including MPEG-4 support.

Knoppix Hacks Kyle Rankin,2007-11-20 If you think Knoppix is just a Linux demo disk, think again. Klaus Knopper created an entire Linux distribution on a bootable CD (and now a DVD) so he could use his favorite open source tools on any computer. This book includes a collection of tips and techniques for using the enormous amount of software Knoppix offers-not just to work and play, but also to troubleshoot, repair, upgrade, and disinfect your system without having to install a thing. Knoppix Hacks is just like the

distribution it covers: a veritable Swiss Army knife packed full of tools. Scores of industrial-strength hacks—many of them new to this second edition—cover both the standard Knoppix CD and the feature-rich DVD Maxi distribution, which is included with this book. Discover how to use Knoppix to its full potential as your desktop, rescue CD, or as a launching point for your own live CD. With Knoppix Hacks, you can:

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Video Codecs Introduction

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