Codec

K.R. Rao,Do Nyeon Kim,Jae Jeong Hwang

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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.

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.

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.

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

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.

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.

Versatile Video Coding Humberto Ochoa Dominguez,K.R. Rao,2022-09-01 Video is the main driver of bandwidth use, accounting for over 80 per cent of consumer Internet traffic. Video compression is a critical component of many of the available multimedia applications, it is necessary for storage or transmission of digital video over today's band-limited networks. The majority of this video is coded using international standards developed in collaboration with ITU-T Study Group and MPEG. The MPEG family of video coding standards begun on the early 1990s with MPEG-1, developed for video and audio storage on CD-ROMs, with support for progressive video. MPEG-2 was standardized in 1995 for applications of video on DVD, standard and high definition television, with support for interlaced and progressive video. MPEG-4 part 2, also known as MPEG-2 video, was standardized in 1999 for applications of low- bit rate multimedia on mobile platforms and the Internet, with the support of object-based or content based coding by modeling the scene as background and foreground. Since MPEG-1, the main video coding standards were based on the so-called macroblocks. However, research groups continued the work beyond the traditional video coding architectures and found that macroblocks could limit the performance of the compression when using high-resolution video. Therefore, in 2013 the high efficiency video coding (HEVC) also known and H.265, was released, with a structure similar to H.264/AVC but using coding units with more flexible partitions than the traditional macroblocks. HEVC has greater flexibility in prediction modes and transform block sizes, also it has a more sophisticated interpolation and de blocking filters. In 2006 the VC-1 was released. VC-1 is a video codec implemented by Microsoft and the Microsoft Windows Media Video (VMW) 9 and standardized by the Society of Motion Picture and Television Engineers (SMPTE). In 2017 the Joint Video Experts Team (JVET) released a call for proposals for a new video coding standard initially called Beyond the HEVC, Future Video Coding (FVC) or known as Versatile Video Coding (VVC). VVC is being built on top of HEVC for application on Standard Dynamic Range (SDR), High Dynamic Range (HDR) and 360° Video. The VVC is planned to be finalized by 2020. This book presents the new VVC, and updates on the HEVC. The book discusses the advances in lossless coding and covers the topic of screen content coding. Technical topics discussed include: Beyond the High Efficiency Video CodingHigh Efficiency Video Coding encoderScreen contentLossless and visually lossless coding algorithmsFast coding algorithmsVisual quality assessmentOther screen content coding algorithmsOverview of JPEG Series

Introduction to Digital Audio Coding and Standards Marina Bosi,Richard E. Goldberg,2012-12-06 Introduction to Digital Audio Coding and Standards provides a detailed introduction to the methods, implementations, and official standards of state-of-the-art audio coding technology. In the book, the theory and implementation of each of the basic coder building blocks is addressed. The building blocks are then fit together into a full coder and the reader is shown how to judge the performance of such a coder. Finally, the authors discuss the features, choices, and performance of the main state-of-the-art coders defined in the ISO/IEC MPEG and HDTV standards and in commercial use today. The ultimate goal of this book is to present the reader with a solid enough understanding of the major issues in the theory and implementation of perceptual audio coders that they are able to build their own simple audio codec. There is no other source available where a non-professional has access to the true secrets of audio coding.

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.

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.

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.

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.

High-fidelity Multichannel Audio Coding Dai Tracy Yang,Chris Kyriakakis,C.-C. Jay Kuo,2004

Windows 7 Annoyances David A. Karp,2010-04-27 Windows 7 may be faster and more stable than Vista, but it's a far cry from problem-free. David A. Karp comes to the rescue with the latest in his popular Windows Annoyances series. This thorough guide gives you the tools you need to fix the troublesome parts of this operating system, plus the solutions, hacks, and timesaving tips to make the most of your PC. Streamline Windows Explorer, improve the Search tool, eliminate the Green Ribbon of Death, and tame User Account Control prompts Explore powerful Registry tips and tools, and use them to customize every aspect of Windows and solve its shortcomings Squeeze more performance from your hardware with solutions for your hard disk, laptop battery, CPU, printers, and more Stop crashes, deal with stubborn hardware and drivers, fix video playback issues, and troubleshoot Windows when it won't start Protect your stuff with permissions, encryption, and shadow copies Secure and speed up your wireless network, fix networking woes, make Bluetooth functional, and improve your Web experience Get nearly all of the goodies in 7 Ultimate, no matter which edition you have Blunt, honest, and awesome. --Aaron Junod, Manager, Integration Systems at Evolution Benefits This could be the best [money] you've ever spent. --Jon Jacobi, PC World To use Windows is to be annoyed -- and this book is the best way to solve any annoyance you come across. It's the most comprehensive and entertaining guide you can get for turning Windows into an operating system that's a pleasure to use. --Preston Gralla, author of Windows Vista in a Nutshell, and Computerworld contributing editor

Computers and Devices for Communication Nikhil Ranjan Das,Santu Sarkar,2021-02-03 This book gathers selected research papers presented at the 7th International Conference on Computers and Devices for Communication (CODEC 2019), held at the Department of Radio Physics and Electronic, University of Calcutta, India, on 19 – 20 December 2019. It includes recent research in the field of nanomaterials, devices and circuits; microwave and light wave technology; communication and space science; and computer applications and control.

Media and Radio Signal Processing for Mobile Communications Kyunghun Jung,Russell M. Mersereau,2018-04-19 Get to grips with the principles and practice of signal processing used in mobile communications systems. Focusing particularly on speech, video, and modem signal processing, pioneering experts employ a detailed, top-down analytical approach to outline the network architectures and protocol structures of multiple generations of mobile communications systems, identify the logical ranges where media and radio signal processing occur, and analyze the procedures for capturing, compressing, transmitting, and presenting media. Chapters are uniquely structured to show the evolution of network architectures and technical elements between generations up to and including 5G, with an emphasis on maximizing service quality and network capacity through re-using existing infrastructure and technologies. Implementation examples and data taken from commercial networks provide an in-depth insight into the operation of real mobile communications systems, including GSM, cdma2000, W-CDMA, LTE, and LTE-A, making this a practical, hands-on guide for both practicing engineers and graduate students in wireless communications.

UMTS Network Planning, Optimization, and Inter-Operation with GSM Moe Rahnema,2008-04-15 UMTS Network Planning, Optimization, and Inter-Operation with GSM is an accessible, one-stop reference to help engineers effectively reduce the time and costs involved in UMTS deployment and optimization. Rahnema includes detailed coverage from both a theoretical and practical perspective on the planning and optimization aspects of UMTS, and a number of other new techniques to help operators get the most out of their networks. Provides an end-to-end perspective, from network design to optimization Incorporates the hands-on experiences of numerous researchers Single authorship allows for strong coherency and accessibility Details the complete iteration cycle of radio link budgeting for coverage planning and dimensioning Rahnema demonstrates detailed formulation of radio capacity and coverage in UMTS, and discusses the tradeoffs involved. He presents complete link budgeting and iterative simulations for capacity and coverage planning, along with practical guidelines. UMTS Network Planning contains seventeen cohesive and well-organized chapters which cover numerous topics, including: Radio channel structures, radio channel models, parameters, model tuning Techniques for capacity and coverage enhancements Complete treatment of power control, handoffs and radio resource practical management processes and parameters Detailed coverage of TCP protocol enhancement for operation over wireless links, particularly UMTS Application of GSM measurements to plan and re-engineer for UMTS radio sites Guidelines for site co-location with GSM, the QOS classes, parameters and inter-workings in UMTS AMR voice codecs and tradeoffs, core and access network design, architectural evolution, and protocols Comprehensive discussion and presentation

of practical techniques for radio performance analysis, trending, and troubleshooting Perfect for professionals in the field and researchers specializing in network enhancement. Engineers working on other air interfaces and next generation technologies will find many of the techniques introduced helpful in designing and deploying future wireless networks as well. Students and professionals new to the wireless field will also find this book to be a good foundation in network planning, performance analysis, and optimization.

Maximum PC ,2003-11 Maximum PC is the magazine that every computer fanatic, PC gamer or content creator must read. Each and every issue is packed with punishing product reviews, insightful and innovative how-to stories and the illuminating technical articles that enthusiasts crave.

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.

Developer's Digital Media Reference Curtis Poole,Janette Bradley,2013-04-26 Designed for media professionals working across a broad range of formats, Developer's Digital Media Reference is an excellent reference guide for those keeping pace with this dynamic industry. As convergence between the World Wide Web, multimedia, and television production communities continues, there is an increased demand for professionals to familiarize themselves with the many new delivery contexts, including hybrid DVD (where digital video content and computer data live on the same disc), interactive TV, and streaming media. Developer's Digital Media Reference covers essential technologies such as SVG (scalable vector graphics), SMIL (Synchronized Multimedia Integration Language, a markup language for creating animations on the web), MPEG-4 (compression standard for streaming audio/video), and Dynamic Web Applications. In addition to serving as a quick-look-up guide, this text is organized to explain today's major media: server-based architectures, disc-based architectures, distribution architectures, and merging/shared architectures. Each topic is discussed in terms of the technological background-evolution, current tools, and production tips and techniques.

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