

Avc Encoder

Chong-Min Kyung

VLSI Design for Video Coding Youn-Long Steve Lin, Chao-Yang Kao, Hung-Chih Kuo, Jian-Wen Chen, 2009-12-29 High definition video requires substantial compression in order to be transmitted or stored economically. Advances in video coding standards from MPEG-1, MPEG-2, MPEG-4 to H.264/AVC have provided ever increasing coding efficiency, at the expense of great computational complexity which can only be delivered through massively parallel processing. This book will present VLSI architectural design and chip implementation for high definition H.264/AVC video encoding, using a state-of-the-art video application, with complete VLSI prototype, via FPGA/ASIC. It will serve as an invaluable reference for anyone interested in VLSI design and high-level (EDA) synthesis for video.

Entropy Coders of the H.264/AVC Standard Xiaohua Tian, Thinh M. Le, Yong Lian, 2010-10-17 This book presents a collection of algorithms and VLSI architectures of entropy (or statistical) codecs of recent video compression standards, with focus on the H.264/AVC standard. For any visual data compression scheme, there exists a combination of two, or all of the following three stages: spatial,

temporal, and statistical compression. General readers are first introduced with the various algorithms of the statistical coders. The VLSI implementations are also reviewed and discussed. Readers with limited hardware design background are also introduced with a design methodology starting from performance-complexity analyses to software/hardware co-simulation. A typical design of the Contextbased Adaptive Binary Arithmetic Coding (CABAC) encoder is also presented in details. To support System-on-Chip design environment, the CABAC design is wrapped with a SoC-based Wishbone system bus interface.

High Efficiency Video Coding (HEVC) Vivienne Sze, Madhukar Budagavi, Gary J.

Sullivan, 2014-08-23 This book provides developers, engineers, researchers and students with detailed knowledge about the High Efficiency Video Coding (HEVC) standard. HEVC is the successor to the widely successful H.264/AVC video compression standard, and it provides around twice as much compression as H.264/AVC for the same level of quality. The applications for HEVC will not only cover the space of the well-known current uses and capabilities of digital video – they will also include the

deployment of new services and the delivery of enhanced video quality, such as ultra-high-definition television (UHDTV) and video with higher dynamic range, wider range of representable color, and greater representation precision than what is typically found today. HEVC is the next major generation of video coding design – a flexible, reliable and robust solution that will support the next decade of video applications and ease the burden of video on world-wide network traffic. This book provides a detailed explanation of the various parts of the standard, insight into how it was developed, and in-depth discussion of algorithms and architectures for its implementation.

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 as 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 deblocking filters. In 2006 the VC-1 was released. VC-1 is a video codec implemented by Microsoft and the Microsoft Windows Media Video (WMV) 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 Coding, High Efficiency Video Coding encoder, Screen content, Lossless and visually lossless coding algorithms, Fast coding algorithms, Visual quality assessment, Other screen content coding algorithms, Overview of JPEG Series.

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

Handbook of Mobile Broadcasting Borko Furht, Syed A. Ahson, 2008-04-15 Operators are introducing mobile television and digital video content services globally. The Handbook of Mobile Broadcasting addresses all aspects of these services, providing a comprehensive reference on DVB-H, DMB, ISDB-T, and MediaFLO. Featuring contributions from experts in the field, the text presents technical standards and distribution proto

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.

High Efficiency Video Coding Mathias Wien, 2014-09-29 The video coding standard High Efficiency

Video Coding (HEVC) targets at improved compression performance for video resolutions of HD and beyond, providing Ultra HD video at similar compressed bit rates as for HD video encoded with the well-established video coding standard H.264/AVC. Based on known concepts, new coding structures and improved coding tools have been developed and specified in HEVC. The standard is expected to be taken up easily by established industry as well as new endeavors, answering the needs of today's connected and ever-evolving online world. This book presents the High Efficiency Video Coding standard and explains it in a clear and coherent language. It provides a comprehensive and consistently written description, all of a piece. The book targets at both, newbies to video coding as well as experts in the field. While providing sections with introductory text for the beginner, it suits as a well-arranged reference book for the expert. The book provides a comprehensive reference for the technical details of the employed coding tools; it further outlines the algorithmic advances compared to H.264/AVC. In addition to the technical aspects, the book provides insight to the general concepts of standardization, how specification text is written, and how these concepts apply to the HEVC

specification.

Image Processing and Communications Challenges 4 Ryszard S. Chora[□], 2012-08-16 This textbook collects a series of research papers in the area of Image Processing and Communications which not only introduce a summary of current technology but also give an outlook of potential future problems in this area. Image Processing and Communications have undergone an impressive development. Recent evolutions in this area have led to a pervasive spread in many areas of human life and have become such a critical component in contemporary science and technology. The book is divided into two parts. The first part contains recent research results in image processing, whilst the second part contains recent research results in communications.

Advances in Multimedia Information Processing - PCM 2006 Yueting Zhuang, 2006-10-24 This book constitutes the refereed proceedings of the 7th Pacific Rim Conference on Multimedia, PCM 2006, held in Hangzhou, China in November 2006. The 116 revised papers presented cover a wide range of topics, including all aspects of multimedia, both technical and artistic perspectives and both

theoretical and practical issues.

Image Processing and Communications Challenges 7 Ryszard S. Chora[□], 2015-10-14 This book contains papers accepted for IP&C 2015, the International Conference on Image Processing and Communications, held at UTP University of Science and Technology, Bydgoszcz, Poland, September 9-11, 2015. This conference was the eighth edition in the IP&C series of annual conferences. This book and the conference have the aim to bring together researchers and scientists in the broad fields of image processing and communications, addressing recent advances in theory, methodology and applications. The book will be of interest to a large group of researchers, engineers and practitioners in image processing and communications.

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.

Complexity-Aware High Efficiency Video Coding Guilherme Corrêa, Pedro Assunção, Luciano Agostini, Luis A. da Silva Cruz, 2015-12-29 This book discusses computational complexity of High

Efficiency Video Coding (HEVC) encoders with coverage extending from the analysis of HEVC compression efficiency and computational complexity to the reduction and scaling of its encoding complexity. After an introduction to the topic and a review of the state-of-the-art research in the field, the authors provide a detailed analysis of the HEVC encoding tools compression efficiency and computational complexity. Readers will benefit from a set of algorithms for scaling the computational complexity of HEVC encoders, all of which take advantage from the flexibility of the frame partitioning structures allowed by the standard. The authors also provide a set of early termination methods based on data mining and machine learning techniques, which are able to reduce the computational complexity required to find the best frame partitioning structures. The applicability of the proposed methods is finally exemplified with an encoding time control system that employs the best complexity reduction and scaling methods presented throughout the book. The methods presented in this book are especially useful in power-constrained, portable multimedia devices to reduce energy consumption and to extend battery life. They can also be applied to portable and non-portable multimedia devices

operating in real time with limited computational resources.

The VC-1 and H.264 Video Compression Standards for Broadband Video Services Jae-Beom Lee, Hari Kalva, 2008-12-18 This book covers the MPEG H.264 and MS VC-1 video coding standards as well as issues in broadband video delivery over IP networks. This professional reference is designed for industry practitioners, including video engineers, and professionals in consumer electronics, telecommunications and media compression industries. The book is also suitable as a secondary text for advanced-level students in computer science and electrical engineering.

Recent Advances in Multimedia Signal Processing and Communications Mislav Grgic, Kresimir Delac, Mohammed Ghanbari, 2009-09-30 The rapid increase in computing power and communication speed, coupled with computer storage facilities availability, has led to a new age of multimedia applications. Multimedia is practically everywhere and all around us we can feel its presence in almost all applications ranging from online video databases, IPTV, - teractive multimedia and more recently in multimedia based social interaction. These new growing applications require high-quality data storage,

easy access to multimedia content and reliable delivery. Moving ever closer to commercial deployment also aroused a higher awareness of security and intellectual property management issues. All the aforementioned requirements resulted in higher demands on various areas of research (signal processing, image/video processing and analysis, communication protocols, content search, watermarking, etc.). This book covers the most prominent research issues in multimedia and is divided into four main sections: i) content based retrieval, ii) storage and remote access, iii) watermarking and copyright protection and iv) multimedia applications. Chapter 1 of the first section presents an analysis on how color is used and why is it crucial in nowadays multimedia applications. In chapter 2 the authors give an overview of the advances in video abstraction for fast content browsing, transmission, retrieval and skimming in large video databases and chapter 3 extends the discussion on video summarization even further. Content retrieval problem is tackled in chapter 4 by describing a novel method for producing meaningful segments suitable for MPEG-7 description based on binary partition trees (BPTs).

3D Visual Content Creation, Coding and Delivery Pedro Amado Assunção, Atanas

Gotchev, 2018-07-28 This book covers the different aspects of modern 3D multimedia technologies by addressing several elements of 3D visual communications systems, using diverse content formats, such as stereo video, video-plus-depth and multiview, and coding schemes for delivery over networks. It also presents the latest advances and research results in regards to objective and subjective quality evaluation of 3D visual content, extending the human factors affecting the perception of quality to emotional states. The contributors describe technological developments in 3D visual communications, with particular emphasis on state-of-the-art advances in acquisition of 3D visual scenes and emerging 3D visual representation formats, such as: multi-view plus depth and light field; evolution to freeview and light-field representation; compression methods and robust delivery systems; and coding and delivery over various channels. Simulation tools, testbeds and datasets that are useful for advanced research and experimental studies in the field of 3D multimedia delivery services and applications are covered. The international group of contributors also explore the research problems and challenges in

the field of immersive visual communications, in order to identify research directions with substantial economic and social impact. 3D Visual Content Creation, Coding and Delivery provides valuable information to engineers and computer scientists developing novel products and services with emerging 3D multimedia technologies, by discussing the advantages and current limitations that need to be addressed in order to develop their products further. It will also be of interest to students and researchers in the field of multimedia services and applications, who are particularly interested in advances bringing significant potential impact on future technological developments.

Recent Advances on Video Coding Javier Del Ser Lorente, 2011-07-05 This book is intended to attract the attention of practitioners and researchers from industry and academia interested in challenging paradigms of multimedia video coding, with an emphasis on recent technical developments, cross-disciplinary tools and implementations. Given its instructional purpose, the book also overviews recently published video coding standards such as H.264/AVC and SVC from a simulational standpoint. Novel rate control schemes and cross-disciplinary tools for the optimization of

diverse aspects related to video coding are also addressed in detail, along with implementation architectures specially tailored for video processing and encoding. The book concludes by exposing new advances in semantic video coding. In summary: this book serves as a technically sounding start point for early-stage researchers and developers willing to join leading-edge research on video coding, processing and multimedia transmission.

Theory and Applications of Smart Cameras Chong-Min Kyung, 2015-07-20 This book presents an overview of smart camera systems, considering practical applications but also reviewing fundamental aspects of the underlying technology. It introduces in a tutorial style the principles of sensing and signal processing, and also describes topics such as wireless connection to the Internet of Things (IoT) which is expected to be the biggest market for smart cameras. It is an excellent guide to the fundamental of smart camera technology, and the chapters complement each other well as the authors have worked as a team under the auspice of GFP(Global Frontier Project), the largest-scale funded research in Korea. This is the third of three books based on the Integrated Smart Sensors research

project, which describe the development of innovative devices, circuits, and system-level enabling technologies. The aim of the project was to develop common platforms on which various devices and sensors can be loaded, and to create systems offering significant improvements in information processing speed, energy usage, and size. This book contains extensive reference lists, introduces the reader to the subject in a tutorial style and also reviews state-of-the-art results, which allows it to be used as a guide for starting researchers.

High Efficiency Video Coding and Other Emerging Standards K.R. Rao,J.J. Hwang,D.N.

Kim,2022-09-01 High Efficiency Video Coding and Other Emerging Standards provides an overview of high efficiency video coding (HEVC) and all its extensions and profiles. There are nearly 300 projects and problems included, and about 400 references related to HEVC alone. Next generation video coding (NGVC) beyond HEVC is also described. Other video coding standards such as AVS2, DAALA, THOR, VP9 (Google), DIRAC, VC1, and AV1 are addressed, and image coding standards such as JPEG, JPEG-LS, JPEG2000, JPEG XR, JPEG XS, JPEG XT and JPEG-Pleno are also

listed. Understanding of these standards and their implementation is facilitated by overview papers, standards documents, reference software, software manuals, test sequences, source codes, tutorials, keynote speakers, panel discussions, reflector and ftp/web sites – all in the public domain. Access to these categories is also provided.

Visual Media Coding and Transmission Ahmet Kondo, 2009-04-01 This book presents the state-of-the-art in visual media coding and transmission Visual Media Coding and Transmission is an output of VISNET II NoE, which is an EC IST-FP6 collaborative research project by twelve esteemed institutions from across Europe in the fields of networked audiovisual systems and home platforms. The authors provide information that will be essential for the future study and development of visual media communications technologies. The book contains details of video coding principles, which lead to advanced video coding developments in the form of Scalable Coding, Distributed Video Coding, Non-Normative Video Coding Tools and Transform Based Multi-View Coding. Having detailed the latest work in Visual Media Coding, networking aspects of Video Communication is detailed. Various

Wireless Channel Models are presented to form the basis for both link level quality of service (QoS) and cross network transmission of compressed visual data. Finally, Context-Based Visual Media Content Adaptation is discussed with some examples. Key Features: Contains the latest advances in this important field covered by VISNET II NoE Addresses the latest multimedia signal processing and coding algorithms Covers all important advance video coding techniques, scalable and multiple description coding, distributed video coding and non-normative tools Discusses visual media networking with various wireless channel models QoS methods by way of link adaptation techniques are detailed with examples Presents a visual media content adaptation platform, which is both context aware and digital rights management enabled Contains contributions from highly respected academic and industrial organizations Visual Media Coding and Transmission will benefit researchers and engineers in the wireless communications and signal processing fields. It will also be of interest to graduate and PhD students on media processing, coding and communications courses.

Adopting the Beat of Term: An Mental Symphony within **Avc Encoder**

In some sort of used by screens and the ceaseless chatter of immediate interaction, the melodic splendor and emotional symphony developed by the prepared word usually disappear into the background, eclipsed by the relentless sound and distractions that permeate our lives. However, set within the pages of **Avc Encoder** a wonderful literary value brimming with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this captivating masterpiece conducts visitors on a psychological trip, well unraveling the hidden songs and profound affect resonating within each cautiously crafted phrase. Within the depths of this emotional evaluation, we will explore the book is central harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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