H264 Encoder 15

Amruta Kiran Kulkarni

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 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.

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.

Scalable Parallel Programming Applied to H.264/AVC Decoding Ben Juurlink, Mauricio Alvarez-Mesa, Chi Ching Chi, Arnaldo Azevedo, Cor Meenderinck, Alex Ramirez, 2012-06-01 Existing software applications should be redesigned if programmers want to benefit from the performance offered by multi- and many-core architectures. Performance scalability now depends on the possibility of finding and exploiting enough Thread-Level Parallelism (TLP) in applications for using the increasing numbers of cores on a chip. Video decoding is an example of an application domain with increasing computational requirements every new generation. This is due, on the one hand, to the trend towards high quality video systems (high

definition and frame rate, 3D displays, etc) that results in a continuous increase in the amount of data that has to be processed in real-time. On the other hand, there is the requirement to maintain high compression efficiency which is only possible with video codes like H.264/AVC that use advanced coding techniques. In this book, the parallelization of H.264/AVC decoding is presented as a case study of parallel programming. H.264/AVC decoding is an example of a complex application with many levels of dependencies, different kernels, and irregular data structures. The book presents a detailed methodology for parallelization of this type of applications. It begins with a description of the algorithm, an analysis of the data dependencies and an evaluation of the different parallelization strategies. Then the design and implementation of a novel parallelization approach is presented that is scalable to many core architectures. Experimental results on different parallel architectures are discussed in detail. Finally, an outlook is given on parallelization opportunities in the upcoming HEVC standard.

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.

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.

Soft Computing in Data Science Michael W. Berry, Azlinah Mohamed, Bee Wah Yap, 2015-09-02 This book constitutes the refereed proceedings of the International Conference on Soft Computing in Data Science, SCDS 2015, held in Putrajaya, Malaysia, in September 2015. The 25 revised full papers presented were carefully reviewed and selected from 69 submissions. The papers are organized in topical sections on data mining; fuzzy computing; evolutionary computing and optimization; pattern recognition; human machine interface; hybrid methods.

Implementation of a Fast Inter-prediction Mode Decision in H.264/AVC Video Encoder Amruta Kiran Kulkarni,2012 H.264/MPEG-4 Part 10 or AVC (advanced video coding) is currently one of the most widely used industry standards for video compression. There are several video codec solutions, both software and hardware, available in the market for H.264. This video compression technology is primarily used in applications such as video conferencing, mobile TV, blu-ray discs, digital television and internet video streaming. This thesis uses the JM 17.2 reference software [15], which is available for all users and can be downloaded from http://iphome.hhi.de/suehring/tml. The software is mainly used for educational purposes;

it also includes the reference software manual which has information about installation, compilation and usage. In real time applications such as video streaming and video conferencing it is important that the video encoding/decoding is fast. It is known, that most of the complexity lies in the H.264 encoder, specifically the motion estimation (ME) and mode decision process introduces high computational complexity and takes a lot of CPU (central processing unit) usage. The mode decision process is complex because of variable block sizes (16X16 to 4x4) motion estimation and half and quarter pixel motion compensations. Hence, the objective of this thesis is to reduce the encoding time while maintaining the same quality and efficiency of compression. The Fast adaptive termination (FAT) [30] algorithm is used in the mode decision and motion estimation process. Based on the rate-distortion (RD) cost characteristics all the inter modes are classified as either skip modes or non-skip modes. In order to select the best mode for any macroblock, the minimum RD cost of these two modes is predicted. Further, for skip mode, an early-skip mode detection test is proposed; for non-skip mode a three-stage scheme is proposed to speed up the mode decision process. Experimental results demonstrate that the proposed technique has good robustness in coding efficiency with different quantization parameters (QP) and various video sequences. It is able to achieve encoding time saving by 47.6% and loss of only 0.01% decrease in structural similarity index matrix (SSIM) with negligible degradation in peak signal to noise ratio (PSNR) and acceptable increase in bit rate.

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.

Advances in Multimedia Information Processing -- PCM 2010, Part II Guoping Qiu,Kin Man Lam,Hitoshi Kiya,Xiang-Yang Xue,C.-C. Jay Kuo,Michael S. Lew,2010-09-13 The 2010 Pacific-Rim Conference on Multimedia (PCM 2010) was held in Shanghai at Fudan University, during September 21-24, 2010. Since its inauguration in 2000, PCM has been held in various places around the Pacific Rim, namely Sydney (PCM 2000), Beijing (PCM 2001), Hsinchu (PCM 2002), Singapore (PCM 2003), Tokyo (PCM 2004), Jeju (PCM 2005), Zhejiang (PCM 2006), Hong Kong (PCM 2007), Tainan (PCM 2008), and Bangkok (PCM 2009). PCM is a major annual international conference organized as a forum for the dissemination of state-of-the-art technological advances and research results in the fields of theoretical, experimental, and applied multimedia analysis and processing. PCM 2010 featured a comprehensive technical program which included 75 oral and 56 poster presentations selected from 261 submissions from Australia, Canada, China, France, Germany, Hong Kong, India, Iran, Italy, Japan, Korea, Myanmar, Norway, Singapore, Taiwan, Thailand, the UK, and the USA. Three distinguished researchers, Prof. Zhi-Hua Zhou from Nanjing University, Dr. Yong Rui from Microsoft, and Dr. Tie-Yan Liu from Microsoft Research Asia delivered three keynote talks to the conference. We are very grateful to the many people who helped to make this conference a s- cess. We would like to especially thank Hong Lu for local organization, Qi Zhang for handling the publication of the proceedings, and Cheng Jin for looking after the c- ference website and publicity. We thank Fei Wu for organizing the special session on large-scale multimedia search in the social network settings.

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 a 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.

Advances in Visual Data Compression and Communication Feng Wu,2014-07-25 Visual information is one of the richest and most bandwidth-consuming modes of communication. To meet the requirements of emerging applications, powerful data compression and transmission techniques are required to achieve highly efficient communication, even in the presence of growing communication channels that offer increased bandwidth. Presenting the results of the author's years of research on visual data compression and transmission, Advances in Visual Data Compression and Communication: Meeting the Requirements of New Applications provides a theoretical and technical basis for advanced research on visual data compression and communication. The book studies the drifting problem in scalable video coding, analyzes the reasons causing the problem, and proposes various solutions to the problem. It explores the author's Barbell-based lifting coding scheme that has been adopted as common software by MPEG. It also proposes a unified framework for deriving a directional transform from the nondirectional counterpart. The structure of the framework and the statistic distribution of coefficients are similar to those of the nondirectional transforms, which facilitates subsequent entropy coding. Exploring the visual correlation that exists in media, the text extends the current coding framework from different aspects, including advanced image synthesis—from description and reconstruction to organizing correlated images as a pseudo sequence. It explains how to apply compressive sensing to solve the data compressive modulation. For analog and digital transmission technologies, the book develops the pseudo-analog transmission for media and explores cutting-edge research on distributed pseudo-analog transmission, denoising in pseudo-analog transmission, and supporting MIMO. It concludes by considering emerging developments of information theory for future applications.

Digital-Forensics and Watermarking Yun Qing Shi, Hyoung-Joong Kim, Fernando Pérez-González, 2014-07-08 This book constitutes the thoroughly refereed post-proceedings of the 12th International Workshop on Digital-Forensics and Watermarking, IWDW 2013, held in Auckland, New Zealand, during October 2013. The 24 full and 13 poster papers, presented together with 2 abstracts, were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections on steganography and steganalysis; visual cryptography; reversible data hiding; forensics; watermarking; anonymizing and plate recognition.

Advances in Electronic Engineering, Communication and Management Vol.2 David Jin, Sally Lin, 2012-01-18 This volume presents the main results

of 2011 International Conference on Electronic Engineering, Communication and Management (EECM2011) held December 24-25, 2011, Beijing China. The EECM2011 is an integrated conference providing a valuable opportunity for researchers, scholars and scientists to exchange their ideas face to face together. The main focus of the EECM 2011 and the present 2 volumes "Advances in Electronic Engineering, Communication and Management" is on Power Engineering, Electrical engineering applications, Electrical machines, as well as Communication and Information Systems Engineering. This volume presents the main results of 2011 International Conference on Electronic Engineering, Communication and Management (EECM2011) held December 24-25, 2011, Beijing China. The EECM2011 is an integrated conference providing a valuable opportunity for researchers, scholars and scientists to exchange their ideas face to face together. The main focus of the EECM 2011 and the present 2 volumes "Advances in Electronic Engineering, Communication and Management" is on Power Engineering, Electrical engineering applications, Electrical machines, as well as Communication and Information Systems Engineering.

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.

<u>Digital Video Coding for Next Generation Multimedia</u> 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.

Mobile Multimedia Communications Jonathan Rodriguez, Rahim Tafazolli, Christos Verikoukis, 2012-10-29 This book constitutes the thoroughly refereed post-conference proceedings of the 6th International ICST Conference on Mobile Multimedia Communications (MOBIMEDIA 2010) held in Lisbon, Portugal, in September 2010, which was accompanied by the First International Workshop on Cognitive Radio and Cooperative Strategies for POWER Saving (C2POWER 2010), the Workshop on Impact of Scalable Video Coding on Multimedia Provisioning (SVCVision 2010), and the First International Workshop on Energy-efficient and Reconfigurable Transceivers (EERT 2010). The 59 revised full papers presented were carefully reviewed and selected from numerous submissions and are organized in topical sections on advanced techniques for video transmission; multimedia distribution; modelling of wireless systems; cellular networks; mobility concepts for IMT-advances (MOBILIA); media independent handovers (MIH-4-MEDIA); and IP-based emergency applications and services for next generation networks (PEACE).

Proceedings of the First International Conference on Advanced Data and Information Engineering (DaEng-2013) Tutut Herawan, Mustafa Mat Deris, Jemal Abawajy, 2013-12-14 The proceeding is a collection of research papers presented at the International Conference on Data Engineering 2013 (DaEng-2013), a conference dedicated to address the challenges in the areas of database, information retrieval, data mining and knowledge management, thereby presenting a consolidated view to the interested researchers in the aforesaid fields. The goal of this conference was to bring together researchers and practitioners from academia and industry to focus on advanced on data engineering concepts and establishing new collaborations in these areas. The topics of interest are as follows but are not limited to: • Database theory • Data management • Data mining and warehousing • Data privacy & security • Information retrieval, integration and visualization • Information system • Knowledge discovery in databases • Mobile, grid and cloud computing • Knowledge-based • Knowledge management • Web data, services and intelligence

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Advanced Concepts for Intelligent Vision Systems Jacques Blanc-Talon, Don Bone, Wilfried Philips, Dan Popescu, Paul Scheunders, 2010-12-06 This book constitutes the refereed proceedings of the 12th International Conference on Advanced Concepts for Intelligent Vision Systems, ACIVS 2010, held in Changchun, China, in August 2010. The 78 revised full papers presented were carefully reviewed and selected from 144 submissions. The papers are organized in topical sections on image processing and analysis; segmentation and edge detection; 3D and depth; algorithms and optimizations; video processing; surveillance and camera networks; machine vision; remote sensing; and recognition, classification and tracking.

H264 Encoder 15 Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **H264 Encoder 15**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

Table of Contents H264 Encoder 15

- \circ The Rise of Digital Reading H264 Encoder 15
- Advantages of eBooks Over Traditional Books
- 2. Identifying H264 Encoder 15

1. Understanding the eBook H264 Encoder 15

- Exploring Different Genres
- Considering Fiction vs. Non-Fiction
- Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an H264 Encoder 15
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from H264 Encoder 15
 - Personalized Recommendations
 - H264 Encoder 15 User Reviews and Ratings
 - H264 Encoder 15 and Bestseller Lists
- 5. Accessing H264 Encoder 15 Free and Paid eBooks
 - H264 Encoder 15 Public Domain eBooks
 - H264 Encoder 15 eBook Subscription Services
 - H264 Encoder 15 Budget-Friendly Options
- 6. Navigating H264 Encoder 15 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - H264 Encoder 15 Compatibility with Devices
 - H264 Encoder 15 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of H264 Encoder 15
 - Highlighting and Note-Taking H264 Encoder 15
 - \circ Interactive Elements H264 Encoder 15
- 8. Staying Engaged with H264 Encoder 15
 - Joining Online Reading Communities
 - $\circ \ \ Participating \ in \ Virtual \ Book \ Clubs$
 - Following Authors and Publishers H264 Encoder 15
- 9. Balancing eBooks and Physical Books H264 Encoder 15
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection H264 Encoder 15
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - $\circ \ \ Minimizing \ Distractions$
 - Managing Screen Time

- 11. Cultivating a Reading Routine H264 Encoder 15
 - Setting Reading Goals H264 Encoder 15
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of H264 Encoder 15
 - Fact-Checking eBook Content of H264 Encoder 15
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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