
IMAGE and VIDEO COMPRESSION for MULTIMEDIA ENGINEERING

Fundamentals,
Algorithms, and Standards

Image And Video Compression For Multimedia Engineering Fundamentals Algorithms And Standards

**Ochoa Dominguez, Humberto,Rao,
Kamisetty R.**




Image And Video Compression For Multimedia Engineering Fundamentals Algorithms And Standards:

Image and Video Compression for Multimedia Engineering Yun-Qing Shi,Huifang Sun,2019-03-07 The latest edition provides a comprehensive foundation for image and video compression It covers HEVC H 265 and future video coding activities in addition to Internet Video Coding The book features updated chapters and content along with several new chapters and sections It adheres to the current international standards including the JPEG standard *Image and Video Compression for Multimedia Engineering* Yun-Qing Shi,Huifang Sun,2017-12-19 Multimedia hardware still cannot accommodate the demand for large amounts of visual data Without the generation of high quality video bitstreams limited hardware capabilities will continue to stifle the advancement of multimedia technologies Thorough grounding in coding is needed so that applications such as MPEG 4 and JPEG 2000 may come to fruition Image and Video Compression for Multimedia Engineering provides a solid comprehensive understanding of the fundamentals and algorithms that lead to the creation of new methods for generating high quality video bit streams The authors present a number of relevant advances along with international standards New to the Second Edition A chapter describing the recently developed video coding standard MPEG Part 10 Advances Video Coding also known as H 264 Fundamental concepts and algorithms of JPEG2000 Color systems of digital video Up to date video coding standards and profiles Visual data image and video coding will continue to enable the creation of advanced hardware suitable to the demands of new applications Covering both image and video compression this book yields a unique self contained reference for practitioners to build a basis for future study research and development *Image and Video Compression for Multimedia Engineering* Taylor & Francis Group,Yun-Qing Shi,Huifang Sun,2021-12-13 The latest edition provides a comprehensive foundation for image and video compression featuring updated chapters and content along with several new chapters and sections It adheres to current international standards including JPEG standard *Image and Video Compression for Multimedia Engineering* Yun-Qing Shi,Huifang Sun,2019-03-07 The latest edition provides a comprehensive foundation for image and video compression It covers HEVC H 265 and future video coding activities in addition to Internet Video Coding The book features updated chapters and content along with several new chapters and sections It adheres to the current international standards including the JPEG standard

Image and Video Compression Standards Vasudev Bhaskaran,Konstantinos Konstantinides,2012-12-06 New to the Second Edition offers the latest developments in standards activities JPEG LS MPEG 4 MPEG 7 and H 263 provides a comprehensive review of recent activities on multimedia enhanced processors multimedia coprocessors and dedicated processors including examples from industry Image and Video Compression Standards Algorithms and Architectures Second Edition presents an introduction to the algorithms and architectures that form the underpinnings of the image and video compressions standards including JPEG compression of still images H 261 and H 263 video conferencing and MPEG 1 and MPEG 2 video storage and broadcasting The next generation of audiovisual coding standards such as MPEG 4 and MPEG

7 are also briefly described. In addition, the book covers the MPEG and Dolby AC 3 audio coding standards and emerging techniques for image and video compression such as those based on wavelets and vector quantization. Image and Video Compression Standards: Algorithms and Architectures, Second Edition, emphasizes the foundations of these standards, namely techniques such as predictive coding, transform-based coding such as the discrete cosine transform (DCT), motion estimation, motion compensation, and entropy coding, as well as how they are applied in the standards. The implementation details of each standard are avoided; however, the book provides all the material necessary to understand the workings of each of the compression standards, including information that can be used by the reader to evaluate the efficiency of various software and hardware implementations conforming to these standards. Particular emphasis is placed on those algorithms and architectures that have been found to be useful in practical software or hardware implementations. Image and Video Compression Standards: Algorithms and Architectures, Second Edition, uniquely covers all major standards: JPEG, MPEG 1, MPEG 2, MPEG 4, H.261, H.263, in a simple and tutorial manner while fully addressing the architectural considerations involved when implementing these standards. As such, it serves as a valuable reference for the graduate student, researcher, or engineer. The book is also used frequently as a text for courses on the subject in both academic and professional settings.

Essential Issues in SOC Design Youn-Long Steve Lin, 2007-05-31. This book originated from a workshop held at the DATE 2005 conference, namely Designing Complex SOC's: State of the Art in Issues Related to System on Chip (SoC) Design, by leading experts in the field. It covers IP development, verification, integration, chip implementation, testing, and software. SOC design is fast becoming the key area of focus that engineers and researchers from the Electronic Design Automation field are focusing on in their quest to further develop Integrated Circuit technology. The more systems and even networks that we can integrate on one piece of silicon, the faster, cheaper, more powerful, and efficient the technology will become. Essential Issues in SOC Design contains valuable academic and industrial examples for those involved with the design of complex SOC's. All contributors are selected from a region of the world that is generally known to lead the SOC Revolution, namely Asia.

Image and Video Compression Madhuri A. Joshi, Mehul S. Raval, Yogesh H. Dandawate, Kalyani R. Joshi, Shilpa P. Metkar, 2014-11-17. Image and video signals require large transmission bandwidth and storage, leading to high costs. The data must be compressed without a loss or with a small loss of quality. Thus, efficient image and video compression algorithms play a significant role in the storage and transmission of data. Image and Video Compression: Fundamentals, Techniques, and

Advances in Multimedia Information Processing - PCM 2004 Kiyoharu Aizawa, Yuichi Nakamura, Shin'ichi Satoh, 2004-11-22. Welcome to the proceedings of the 5th Pacific Rim Conference on Multimedia (PCM 2004) held in Tokyo Waterfront City, Japan, November 30–December 3, 2004. Following the success of the preceding conferences (PCM 2000 in Sydney, PCM 2001 in Beijing, PCM 2002 in Hsinchu, and PCM 2003 in Singapore), the 5th PCM brought together the researchers, developers, practitioners, and educators in the field of multimedia. Theoretical breakthroughs and practical systems

were presented at this conference thanks to the support of the IEEE Circuits and Systems Society IEEE Region 10 and IEEE Japan Council ACM SIGMM IEICE and ITE PCM2004 featured a comprehensive program including keynote talks regular paper presentations posters demos and special sessions We received 385 papers and the number of submissions was the largest among recent PCMs Among such a large number of submissions we accepted only 94 oral presentations and 176 poster presentations Seven special sessions were also organized by world leading researchers We kindly acknowledge the great support provided in the reviewing of submissions by the program committee members as well as the additional reviewers who generously gave their time The many useful comments provided by the reviewing process must have been very valuable for the authors work

This conference would never have happened without the help of many people We greatly appreciate the support of our strong organizing committee chairs and advisory chairs Among the chairs special thanks go to Dr Ichiro Ide and Dr Takeshi Naemura who smoothly handled publication of the proceedings with Springer Dr Kazuya Kodama did a fabulous job as our Web master

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

Emerging Research on Networked Multimedia Communication Systems Kanellopoulos, Dimitris, 2015-08-14

Versatile Video Coding: Latest Advances in Video Coding Standards Ochoa Dominguez, Humberto, Rao, Kamisetty R., 2019-03-08 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 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 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

Video Data Management and Information Retrieval Sagarmay Deb, 2005-01-01 This book combines the two important areas of research within computer technology and presents them in comprehensive easy to understand manner Ideal for graduates and under graduates as well as researchers working in either video data management or information retrieval it takes an in depth look at many relevant topics within both video data management and information retrieval In addition to dissecting those issues it also provides a big picture view of each topic

Multimedia Networking and Coding Farrugia, Reuben A., Debono, Carl J., 2012-12-31 Advances in multimedia communication systems have enhanced the need for improved video coding standards Due to the inherent nature of video content large bandwidths and reliable communication links are required to ensure a satisfactory level of quality experience inspiring industry and research communities to concentrate their efforts in this emerging research area Multimedia Networking and Coding covers widespread knowledge and research as well as innovative applications in multimedia communication systems This book highlights recent techniques that can evolve into future multimedia communication systems also showing experimental results from systems and applications

Circuits, Signals, and Speech and Image Processing Richard C. Dorf, 2018-10-03 In two editions spanning more than

a decade The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering Our knowledge continues to grow and so does the Handbook For the third edition it has expanded into a set of six books carefully focused on a specialized area or field of study Each book represents a concise yet definitive collection of key concepts models and equations in its respective domain thoughtfully gathered for convenient access Circuits Signals and Speech and Image Processing presents all of the basic information related to electric circuits and components analysis of circuits the use of the Laplace transform as well as signal speech and image processing using filters and algorithms It also examines emerging areas such as text to speech synthesis real time processing and embedded signal processing Each article includes defining terms references and sources of further information Encompassing the work of the world s foremost experts in their respective specialties Circuits Signals and Speech and Image Processing features the latest developments the broadest scope of coverage and new material on biometrics

Research Anthology on Recent Trends, Tools, and Implications of Computer Programming Management Association, Information Resources,2020-08-03 Programming has become a significant part of connecting theoretical development and scientific application computation Computer programs and processes that take into account the goals and needs of the user meet with the greatest success so it behooves software engineers to consider the human element inherent in every line of code they write Research Anthology on Recent Trends Tools and Implications of Computer Programming is a vital reference source that examines the latest scholarly material on trends techniques and uses of various programming applications and examines the benefits and challenges of these computational developments Highlighting a range of topics such as coding standards software engineering and computer systems development this multi volume book is ideally designed for programmers computer scientists software developers analysts security experts IoT software programmers computer and software engineers students professionals and researchers

Examining Fractal Image Processing and Analysis Nayak, Soumya Ranjan,Mishra, Jibitesh,2019-10-18 Digital image processing is a field that is constantly improving Gaining high level understanding from digital images is a key requirement for computing One aspect of study that is assisting with this advancement is fractal theory This new science has gained momentum and popularity as it has become a key topic of research in the area of image analysis Examining Fractal Image Processing and Analysis is an essential reference source that discusses fractal theory applications and analysis including box counting analysis multi fractal analysis 3D fractal analysis and chaos theory as well as recent trends in other soft computing techniques Featuring research on topics such as image compression pattern matching and artificial neural networks this book is ideally designed for system engineers computer engineers professionals academicians researchers and students seeking coverage on problem oriented processing techniques and imaging technologies

Intelligent Multimedia Data Hiding Hsiang-Cheh Huang,Wai-Chi Fang,2007-04-25 This book lays out all the latest research in the area of multimedia data hiding The book introduces multimedia signal processing and information hiding techniques It includes multimedia

representation digital watermarking fundamentals and requirements of watermarking It moves on to cover the recent advances in multimedia signal processing before presenting information hiding techniques including steganography secret sharing and watermarking The final part of this book includes practical applications of intelligent multimedia signal processing and data hiding systems

Digital Video Distribution in Broadband, Television, Mobile and Converged Networks Sanjoy Paul, 2011-06-20 A unique treatment of digital video distribution technology in a business context Digital Video Distribution in Broadband Television Mobile and Converged Networks explores a range of diverse topics within the field through a combination of theory and practice to provide the best possible insight and exposure The theoretical foundations inside assist a fuller understanding of the technologies used in practice while real world examples are correspondingly used to emphasize the applicability of theory in the commercial world Fully illustrated throughout to help explain the fundamental concepts of digital media distribution Digital Video Distribution in Broadband Television Mobile and Converged Networks is divided into three major parts starting initially with the basic industry trends that have been driving the adoption of video and making its distribution over the Internet an economically viable solution This is followed with detail descriptions of challenges and solutions in distributing video in open networks such as the Internet The final part focuses on the challenges and solutions for distributing video in closed networks such as the managed network of Telcos Provides an A to Z of digital video distribution featuring technology business research products and case studies Features research topics exploring P2P Streaming Digital Video Distribution over Disruption Tolerant Networks and Scalable Video on Demand Includes real world product descriptions on Transcoders such as Rhozet and IPTV Quality of Service Monitoring product such as Ineoquest

Advances in Multimedia Modeling Tat-Jen Cham, Jianfei Cai, Chitra Dorai, Deepu Rajan, Tat-Seng Chua, Liang-Tien Chia, 2007-07-07 The two volume set LNCS 4351 and LNCS 4352 constitutes the refereed proceedings of the 13th International Multimedia Modeling Conference MMM 2007 held in Singapore in January 2007 Based on rigorous reviewing the program committee selected 123 carefully revised full papers of the main technical sessions and 33 revised full papers of four special sessions from a total of 392 submissions for presentation in two volumes

New Approaches in Intelligent Image Analysis Roumen Kountchev, Kazumi Nakamatsu, 2016-05-19 This book presents an Introduction and 11 independent chapters which are devoted to various new approaches of intelligent image processing and analysis The book also presents new methods algorithms and applied systems for intelligent image processing on the following basic topics Methods for Hierarchical Image Decomposition Intelligent Digital Signal Processing and Feature Extraction Data Clustering and Visualization via Echo State Networks Clustering of Natural Images in Automatic Image Annotation Systems Control System for Remote Sensing Image Processing Tissue Segmentation of MR Brain Images Sequence Kidney Cysts Segmentation in CT Images Audio Visual Attention Models in Mobile Robots Navigation Local Adaptive Image Processing Learning Techniques for Intelligent Access Control Resolution Improvement in Acoustic Maps Each chapter is self contained

with its own references Some of the chapters are devoted to the theoretical aspects while the others are presenting the practical aspects and the analysis of the modeling of the developed algorithms in different application areas

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