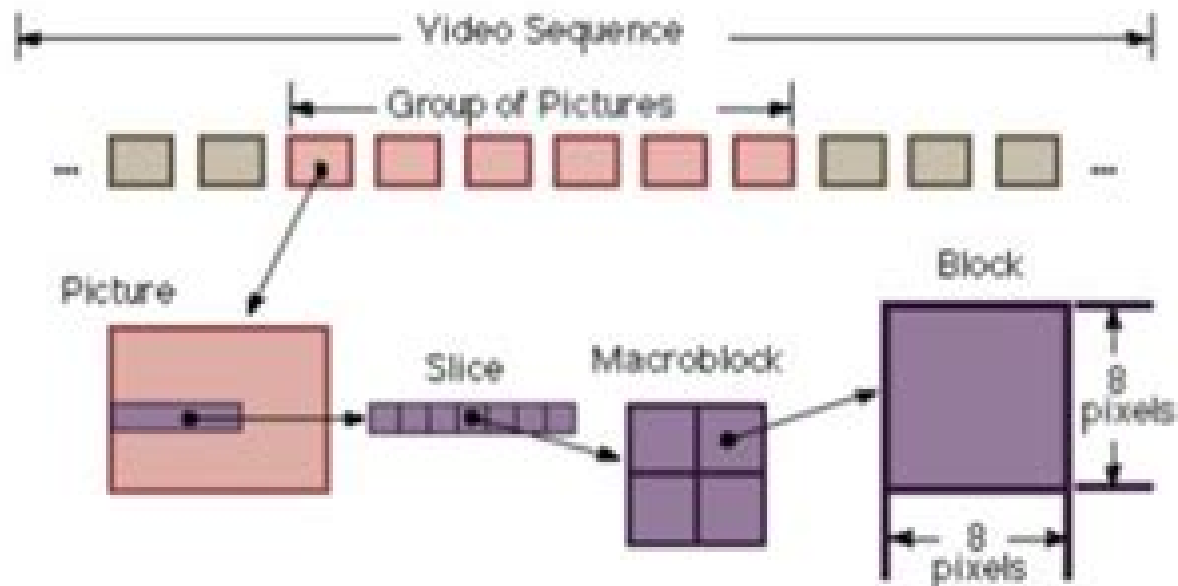# MPEG-2 Video Compression

VIDEO STREAM DATA HIRERARCHY

Mpeg Video Compression Standard

Borko Furht

Mpeg Video Compression Standard:

    <u>Image and Video Compression Standards</u> 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 teleconferencing 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 emSecond 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

    MPEG Video Compression Standard Joan L. Mitchell,1996   **MPEG Video Compression Standard** Joan L. Mitchell,1997 This book gives the professional and student one place to look for answers and guidance on MPEG It incorporates low level as well as sophisticated reviews of the major technical elements and includes sufficient tutorial material that even naive users should be able to understand the answers to their MPEG questions It contains many pictorial examples so that the benefits and limits of MPEG can be estimated from the data in the book The full functionality of the entire MPEG standard is exclaimed Guidance is given about the purpose behind some of the choices and implementers Paricular emphasis is placed on the image compression of the MPEG standard   **MPEG Video Compression Standard** Chad Fogg,Didier J. LeGall,Joan L. Mitchell,William B. Pennebaker,2007-05-08 This book initiates a new digital multimedia standards series The purpose of the series is to make information about digital multimedia standards readilyavailable Both

tutorial and advanced topics will be covered in the series often in one book Our hope is that users will find the series helpful in deciding what standards to support and use while implementors will d cover a wealth of technical details that help them implement those standards correctly In today s global economy standards are increasingly important Yet until a standard is widely used most of the benefits of standardization are not realized We hope that standards committee chairpeople will organize and encourage a book in this series devoted to their new standard This can be a forum to share and preserve some ofthe why and how that went into the development of the standard and in the process assist in the rapid adoption of the standard Already in production for this series are books titled Digital Video troduction to MPEG 2 and Data Compression in Digital Systems   *MPEG Video Compression Standard* Mitchell,2013-10-09   Mitchell MPEG Digital Video Compr Joan L. Mitchell,William B. Pannebaker,Didier J. Le Gall,1995 This volume covers the hows and whys behind the creation of MPEG the hottest standard in the electronics industry including MPEG1 and the main part of MPEG2 with an emphasis on MPEG image sequence compression It includes clearly marked tutorial material on the capabilities and limits of MPEG and provides insight into advanced topics   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 Probably the most interesting and influential class to the authors about video compression was EE E6830 Digital Image Processing and Understanding at Columbia University in 1995 offered by adjunct Professors Dr Netravali Dr Haskell and Dr Puri at AT T In the class they impressed the authors with how such difficult and mysterious statements in video standards could be interpreted understood in plain human languages Since then the authors had had a dream that similar services could also be provided to interpret difficult video subjects into reasonable level of

explanations in the future The VC 1 standard is fundamentally the same as WMV 9 WMV x video compression technologies of Microsoft have long been the most popular over the Internet due to popularity of Microsoft Operating Systems The technologies were published in August 2005 for the first time in a formal SMPTE document in the name of VC 1 and the official standard then was finalized in April 2006 In contrast the MPEG committee recently standardized the MPEG AVC H 264 video coding standard whose first version was officially published in May 2003 and several subsequent amendments and corrigenda then followed until recently These two are highly efficient compression standards that can make hi quality video services possible for Digital Storage Media e g Blu ray DVD or HD DVD and or broadband networks applications e g IPTV

   Real-Time Video Compression Raymond Westwater,Borko Furht,2007-08-28 Real Time Video Compression Techniques and Algorithms introduces the XYZ video compression technique which operates in three dimensions eliminating the overhead of motion estimation First video compression standards MPEG and H 261 H 263 are described They both use asymmetric compression algorithms based on motion estimation Their encoders are much more complex than decoders The XYZ technique uses a symmetric algorithm based on the Three Dimensional Discrete Cosine Transform 3D DCT 3D DCT was originally suggested for compression about twenty years ago however at that time the computational complexity of the algorithm was too high it required large buffer memory and was not as effective as motion estimation We have resurrected the 3D DCT based video compression algorithm by developing several enhancements to the original algorithm These enhancements make the algorithm feasible for real time video compression in applications such as video on demand interactive multimedia and videoconferencing The demonstrated results presented in this book suggest that the XYZ video compression technique is not only a fast algorithm but also provides superior compression ratios and high quality of the video compared to existing standard techniques such as MPEG and H 261 H 263 The elegance of the XYZ technique is in its simplicity which leads to inexpensive VLSI implementation of any XYZ codec Real Time Video Compression Techniques and Algorithms can be used as a text for graduate students and researchers working in the area of real time video compression In addition the book serves as an essential reference for professionals in the field   *JPEG2000 Standard for Image Compression* Tinku Acharya,Ping-Sing Tsai,2005-01-07 JPEG2000 Standard for Image Compression presents readers with the basic background to this multimedia compression technique and prepares the reader for a detailed understanding of the JPEG2000 standard using both the underlying theory and the principles behind the algorithms of the JPEG2000 standard for scalable image compression It introduces the VLSI architectures and algorithms for implementation of the JPEG2000 standard in hardware not available in the current literature an important technology for a number of image processing applications and devices such as digital camera color fax printer and scanners   Encyclopedia of Multimedia Borko Furht,2008-11-26 This second edition provides easy access to important concepts issues and technology trends in the field of multimedia technologies systems techniques and applications Over 1 100 heavily illustrated pages including 80 new entries

present concise overviews of all aspects of software systems web tools and hardware that enable video audio and developing media to be shared and delivered electronically *Hybrid Video Compression Standard* Dhaval R. Bhojani,Vedvyas J. Dwivedi,Rohit M. Thanki,2019-09-18 The book presents compression techniques for digital video stream describing their design using various image transforms such as discrete cosine transform DCT discrete wavelet transform DWT and singular value decomposition SVD It first discusses the basic requirements and applications of video compression techniques The book then addresses video compression using DCT as well as the hybrid compression technique designed and implemented using DCT DWT and SVD demonstrating the simulation results for both Lastly it proposes future research directions in the field   Digital Video: An Introduction to MPEG-2 Barry G. Haskell,Atul Puri,Arun N. Netravali,2007-05-08 Digital Video offers comprehensive coverage of the MPEG 2 audio visual digital compression standard The treatment includes the specifics needed to implement an MPEG 2 Decoder including the syntax and semantics of the coded bitstreams Since the MPEG 2 Encoders are not specified by the standard and are actually closely held secrets of many vendors the book only outlines the fundamentals of encoder design and algorithm optimization   IPTV and Internet Video Wes Simpson,Howard Greenfield,2012-11-12 Stake your claim in the rapidly growing IPTV market with a thorough understanding of the key trends and technological advances shaping the future of broadband video technology Make informed business decisions with a working knowledge of changes in technology services and business models Get an up to date picture of the industry with new forms of television delivery the new standard for video delivery and current market figures With annual growth estimates at 32 % for the next six years this is necessary reading for remaining current in the marketplace The second edition covers the monetization of IPTV the differences between IPTV Internet video trends for the future and industry expectations Written by two leading digital media experts each with 25 years technology development experience and global insight   Handbook of Image and Video Processing Alan C. Bovik,2010-07-21 55% new material in the latest edition of this must have for students and practitioners of image video processing This Handbook is intended to serve as the basic reference point on image and video processing in the field in the research laboratory and in the classroom Each chapter has been written by carefully selected distinguished experts specializing in that topic and carefully reviewed by the Editor Al Bovik ensuring that the greatest depth of understanding be communicated to the reader Coverage includes introductory intermediate and advanced topics and as such this book serves equally well as classroom textbook as reference resource Provides practicing engineers and students with a highly accessible resource for learning and using image video processing theory and algorithms Includes a new chapter on image processing education which should prove invaluable for those developing or modifying their curricula Covers the various image and video processing standards that exist and are emerging driving today s explosive industry Offers an understanding of what images are how they are modeled and gives an introduction to how they are perceived Introduces the necessary practical background to allow engineering students to acquire and process their own

digital image or video data Culminates with a diverse set of applications chapters covered in sufficient depth to serve as extensible models to the reader s own potential applications About the Editor Al Bovik is the Cullen Trust for Higher Education Endowed Professor at The University of Texas at Austin where he is the Director of the Laboratory for Image and Video Engineering LIVE He has published over 400 technical articles in the general area of image and video processing and holds two U S patents Dr Bovik was Distinguished Lecturer of the IEEE Signal Processing Society 2000 received the IEEE Signal Processing Society Meritorious Service Award 1998 the IEEE Third Millennium Medal 2000 and twice was a two time Honorable Mention winner of the international Pattern Recognition Society Award He is a Fellow of the IEEE was Editor in Chief of the IEEE Transactions on Image Processing 1996 2002 has served on and continues to serve on many other professional boards and panels and was the Founding General Chairman of the IEEE International Conference on Image Processing which was held in Austin Texas in 1994 No other resource for image and video processing contains the same breadth of up to date coverage Each chapter written by one or several of the top experts working in that area Includes all essential mathematics techniques and algorithms for every type of image and video processing used by electrical engineers computer scientists internet developers bioengineers and scientists in various image intensive disciplines   Buffering Techniques for Delivery of Compressed Video in Video-on-Demand Systems Wu-Chi Feng,2007-08-26 Many emerging technologies such as video conferencing video on demand and digital libraries require the efficient delivery of compressed video streams For applications that require the delivery of compressed stored multimedia streams the a priori knowledge available about these compressed streams can aid in the allocation of server and network resources By using a client side buffer the resource requirements from the server and network can be minimized Buffering Techniques for Delivery of Compressed Video in Video on Demand Systems presents a comprehensive description of buffering techniques for the delivery of compressed prerecorded multimedia data While these techniques can be applied to any compressed data streams this book focusses primarily on the delivery of video streams because of the large resource requirements that they can consume The book first describes buffering techniques for the continuous playback of stored video sources In particular several bandwidth smoothing or buffering algorithms that are provably optimal under certain conditions are presented To provide a well rounded discussion the book then describes extensions that aid in the ability to provide interactive delivery of video across networks Specifically reservation techniques that take into account interactive functions such as fast forward and rewind are described In addition extensions to the bandwidth smoothing algorithms presented in the first few chapters are described These algorithms are designed with interactive continuous playback of stored video in mind and are also provably optimal under certain constraints Buffering Techniques for Delivery of Compressed Video in Video on Demand Systems serves as an excellent resource for multimedia systems networking and video on demand designers and may be used as a text for advanced courses on the topic   *Multimedia Programming - A Practical Approach* Siddhartha Bhattacharyya &

Paramartha Dutta, Multimedia Programming A Practical Approach is a maiden treatise on the core concepts of multimedia programming standards and practices catering to the different branches of Engineering disciplines of Computer Science Information Technology Electronics Communication Engineering and Electrical Engineering of various Indian and Foreign Universities The book deals with an in depth analysis of the facets of hands on of multimedia programming essentials with reference to the different multimedia file standards in existence Each chapter of the book starts with a brief introduction of the topic and ends with review questions and programming exercises The fundamental concepts of multimedia programming with Virtual Reality Markup Language VRML essentials are explained with suitable illustrations and real life examples The book describes the core concepts of multimedia basics multimedia file standards with reference to discrete and continuous media multimedia devices and future of multimedia in the form of VRML with illustrative programming examples The distinctive feature of this book is the assay of real time programming examples in Win 32 API programming platform

Signal Processing for Telecommunications and Multimedia Tadeusz A. Wysocki,Bahram Honary,Beata J. Wysocki,2005-12-28 The unprecedented growth in the range of multimedia services offered these days by modern telecommunication systems has been made possible only because of the advancements in signal processing technologies and algorithms In the area of telecommunications application of signal processing allows for new generations of systems to achieve performance close to theoretical limits while in the area of multimedia signal processing the underlying technology making possible realization of such applications that not so long ago were considered just a science fiction or were not even dreamed about We all learnt to adopt those achievements very quickly but often the research enabling their introduction takes many years and a lot of efforts This book presents a group of invited contributions some of which have been based on the papers presented at the International Symposium on DSP for Communication Systems held in Coolangatta on the Gold Coast Australia in December 2003 Part 1 of the book deals with applications of signal processing to transform what we hear or see to the form that is most suitable for transmission or storage for a future retrieval The first three chapters in this part are devoted to processing of speech and other audio signals The next two chapters consider image coding and compression while the last chapter of this part describes classification of video sequences in the MPEG domain   **The Handbook of Data Communications and Networks** B. Buchanan,2010-02-23 02 2 Network topologies 744 02 3 Token ring 747 02 4 Ethernet 749 02 5 LAN components 752 02 6 Cabling standards 762 02 7 Important networking definitions 769 03 Ethernet 771 03 1 Introduction 771 03 2 IEEE standards 772 03 3 Ethernet media access control MAC layer 773 03 4 IEEE 802 2 and Ethernet SNAP 775 03 5 OSI and the IEEE 802 3 standard 777 03 6 Ethernet types 780 03 7 Twisted pair hubs 781 03 8 100 Mbps Ethernet 782 03 9 Gigabit Ethernet 787 03 10 Bridges 792 03 11 ARP 793 03 12 RARP 797 03 13 Spanning Tree Protocol 798 03 14 Additional 799 03 15 Network interface card design BOO 03 16 82559 based Ethernet 804 03 17 Comparison of fast Ethernet with other technologies 806 04 Network Design Switches and vLANs 807 04 1 Introduction 807

Recent Advances in Visual Information Systems Shi-Kuo Chang,Zen Chen,Suh-Yin Lee,2003-08-01 Visualinformationsystemsareinformationsystemsforvisualcomputing Visual computing is computing on visual objects Some visual objects such as images are inherently visual in the sense that their primary representation is the visual representation Somevisualobjectssuchasdatastructuresarederivativelyvisual in the sense that their primary representation is not the visual representation but can be transformed into a visual representation Images and data structures are the two extremes Other visual objects such as maps may fall somewhere in between the two Visual computing often involves the transformation from one type of visual objects into another type of visual objects or into the same type of visual objects to accomplish certain objectives such as information reduction object recognition and so on In visual information systems design it is also important to ask the foll ing question who performs the visual computing The answer to this question determines the approach to visual computing For instance it is possible that primarily the computer performs the visual computing and the human merely observes the results It is also possible that primarily the human performs the visual computing and the computer plays a supporting role Often the human and the computer are both involved as equal partners in visual computing and there are visual interactions Formal or informal visual languages are usually needed to facilitate such visual interactions

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