VIDEO CODING

The Second Generation Approach

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Video Coding The Second Generation Approach

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Video Coding The Second Generation Approach:

   Video Coding Luis Torres,Murat Kunt,2011-10-14 In recent years there has been an increasing interest in Second Generation Image and Video Coding Techniques These techniques introduce new concepts from image analysis that greatly improve the performance of the coding schemes for very high compression This interest has been further emphasized by the future MPEG 4 standard Second generation image and video coding techniques are the ensemble of approaches proposing new and more efficient image representations than the conventional canonical form As a consequence the human visual system becomes a fundamental part of the encoding decoding chain More insight to distinguish between first and second generation can be gained if it is noticed that image and video coding is basically carried out in two steps First image data are converted into a sequence of messages and second code words are assigned to the messages Methods of the first generation put the emphasis on the second step whereas methods of the second generation put it on the first step and use available results for the second step As a result of including the human visual system second generation can be also seen as an approach of seeing the image composed by different entities called objects This implies that the image or sequence of images have first to be analyzed and or segmented in order to find the entities It is in this context that we have selected in this book three main approaches as second generation video coding techniques Segmentation based schemes Model Based Schemes Fractal Based Schemes LIST Video Coding The Second Generation Approach is an important introduction to the new coding techniques for video As such all researchers students and practitioners working in image processing will find this book of interest   **Effective Video Coding for Multimedia Applications** Sudhakar Radhakrishnan,2011-04-26 Information has become one of the most valuable assets in the modern era Within the last 5 10 years the demand for multimedia applications has increased enormously Like many other recent developments the materialization of image and video encoding is due to the contribution from major areas like good network access good amount of fast processors e t c Many standardization procedures were carrried out for the development of image and video coding The advancement of computer storage technology continues at a rapid pace as a means of reducing storage requirements of an image and video as most situation warrants Thus the science of digital video compression coding has emerged This storage capacity seems to be more impressive when it is realized that the intent is to deliver very high quality video to the end user with as few visible artifacts as possible Current methods of video compression such as Moving Pictures Experts Group MPEG standard provide good performance in terms of retaining video quality while reducing the storage requirements Many books are available for video coding fundamentals This book is the research outcome of various Researchers and Professors who have contributed a might in this field This book suits researchers doing their research in the area of video coding The understanding of fundamentals of video coding is essential for the reader before reading this book The book revolves around three different challenges namely i Coding strategies coding efficiency and computational complexity ii Video compression and iii Error resilience The

complete efficient video system depends upon source coding proper inter and intra frame coding emerging newer transform quantization techniques and proper error concealment The book gives the solution of all the challenges and is available in different sections **Handbook on Satellite Communications** International Telecommunications Union,2002-04-04 An essential overview of satellite communications from the organization that sets the international standards Since their introduction in the mid 1960s satellite communications have grown from a futuristic experiment into an integral part of today s wired world Satellite communications are at the core of a global automatically switched telephony network Assembled by the International Telecommunication Union the international organization that sets the standards for this rapidly growing industry the Handbook on Satellite Communications Third Edition brings together basic facts about satellite communications as related to the fixed satellite service FSS It covers the main principles technologies and operation of equipment in a tutorial form Updated to include the latest technologies and information the Third Edition provides both the standards and technical information needed to implement and interact with satellite communication systems including The components and basic characteristics of a satellite communication system Regulatory considerations and system planning SDH and ATM satellite transmissions Analog and digital baseband signal processing and multiplexing Carrier modulation techniques Geostationary and non geostationary systems Interconnection of satellite and terrestrial networks LEOS satellite networks and other recent developments As digital modulation and transmission replace analog techniques and as satellites in non geostationary and lower altitude orbits open the way to new applications satellite communications will continue to grow in use and importance Everyone involved in the administration and operation of satellite communications will find this a crucial resource **Mathematical Morphology and Its Applications to Image and Signal Processing** Petros Maragos,Ronald W. Schafer,Muhammad Akmal Butt,2012-12-06 Mathematical morphology MM is a powerful methodology for the quantitative analysis of geometrical structures It consists of a broad and coherent collection of theoretical concepts nonlinear signal operators and algorithms aiming at extracting from images or other geometrical objects information related to their shape and size Its mathematical origins stem from set theory lattice algebra and integral and stochastic geometry MM was initiated in the late 1960s by G Matheron and J Serra at the Fontainebleau School of Mines in France Originally it was applied to analyzing images from geological or biological specimens However its rich theoretical framework algorithmic efficiency easy implementability on special hardware and suitability for many shape oriented problems have propelled its widespread diffusion and adoption by many academic and industry groups in many countries as one among the dominant image analysis methodologies The purpose of Mathematical Morphology and its Applications to Image and Signal Processing is to provide the image analysis community with a sampling from the current developments in the theoretical deterministic and stochastic and computational aspects of MM and its applications to image and signal processing The book consists of the papers presented at the ISMM 96 grouped into the following themes Theory Connectivity Filtering Nonlinear System Related to

Morphology Algorithms Architectures Granulometries Texture Segmentation Image Sequence Analysis Learning Document Analysis Applications *The Essential Guide to Video Processing* Alan C. Bovik,2009-07-07 This comprehensive and state of the art approach to video processing gives engineers and students a comprehensive introduction and includes full coverage of key applications wireless video video networks video indexing and retrieval and use of video in speech processing Containing all the essential methods in video processing alongside the latest standards it is a complete resource for the professional engineer researcher and graduate student Numerous conceptual and numerical examples All the latest standards are thoroughly covered MPEG 1 MPEG 2 MPEG 4 H 264 and AVC Coverage of the latest techniques in video security Like its sister volume The Essential Guide to Image Processing Professor Bovik s Essential Guide to Video Processing provides a timely and comprehensive survey with contributions from leading researchers in the area Highly recommended for everyone with an interest in this fascinating and fast moving field Prof Bernd Girod Stanford University USA Edited by a leading person in the field who created the IEEE International Conference on Image Processing with contributions from experts in their fields Numerous conceptual and numerical examples All the latest standards are thoroughly covered MPEG 1 MPEG 2 MPEG 4 H 264 and AVC Coverage of the latest techniques in video security   Design of Digital Video Coding Systems Jie Chen,Ut-Va Koc,KJ Ray Liu,2001-10-31 A discussion of a compressed domain approach for designing and implementing digital video coding systems which is drastically different from the traditional hybrid approach It demonstrates how the combination of discrete cosine transform DCT coders and motion compensated MC units reduces power consumption and hardware complexity   **Digital Video Image Quality and Perceptual Coding** H.R. Wu,K.R. Rao,2017-12-19 The hand is quicker than the eye In many cases so is digital video Maintaining image quality in bandwidth and memory restricted environments is quickly becoming a reality as thriving research delves ever deeper into perceptual coding techniques which discard superfluous data that humans cannot process or detect Surveying the topic from a Human Visual System HVS based approach Digital Video Image Quality and Perceptual Coding outlines the principles metrics and standards associated with perceptual coding as well as the latest techniques and applications This book is divided broadly into three parts First it introduces the fundamental theory concepts principles and techniques underlying the field such as the basics of compression HVS modeling and coding artifacts associated with current well known techniques The next section focuses on picture quality assessment criteria subjective and objective methods and metrics including vision model based digital video impairment metrics testing procedures and international standards regarding image quality Finally practical applications come into focus including digital image and video coder designs based on the HVS as well as post filtering restoration error correction and concealment techniques The permeation of digital images and video throughout the world cannot be understated Nor can the importance of preserving quality while using minimal storage space and Digital Video Image Quality and Perceptual Coding provides the tools necessary to accomplish this goal Instructors and lecturers wishing

to make use of this work as a textbook can download a presentation of 786 slides in PDF format organized to augment the text accompany our book H R Wu and K R Rao Digital Video Image Quality and Perceptual Coding CRC Press ISBN 0 8247 2777 0 Nov 2005 for lecturers or instructor to use for their classes if they use the book   *Electronic Imaging Technology* Edward R. Dougherty,1999 This text provides an overview of electronic imaging systems technology and practical applications Written by industry experts its chapters explore a variety of systems and applications ranging from video compression and handwritten word recognition to colour science and hardware architecture   *Visual Information Processing in Wireless Sensor Networks: Technology, Trends and Applications* Ang, Li-Minn,Seng, Kah Phooi,2011-09-30 This book provides a central source of reference on visual information processing in wireless sensor network environments and its technology application and society issues   *Mobile Multimedia Communications: Concepts, Applications, and Challenges* Karmakar, Gour,Dooley, Laurence S.,2007-11-30 With rapid growth of the Internet the applications of multimedia are burgeoning in every aspect of human life including communication networks and wireless and mobile communications Mobile Multimedia Communications Concepts Applications and Challenges captures defining research on all aspects and implications of the accelerated progress of mobile multimedia technologies Covered topics include fundamental network infrastructures modern communication features such as wireless and mobile multimedia protocols personal communication systems mobility and resource management and security and privacy issues A complete reference to topics driving current and potential future development of mobile technologies this essential addition to library collections will meet the needs of researchers in a variety of related fields   *Image and Video Communications and Processing 2000* Bhaskaran Vasudev,2000

1999 International Conference on Image Processing : Proceedings ,1999   1998 International Conference on Image Processing : Proceedings ,1998   **Visual Communications and Image Processing '96** ,1996   *Visual Communications and Image Processing* ,1999   **1994 IEEE International Symposium on Circuits and Systems** ,1994   *Eighth IEEE International Conference on Computer Vision* IEEE Computer Society,2001 This two volume set contains the proceedings of the July 2001 conference on computer vision The 205 papers discuss sensors and early vision stereo and multiple views segmentation and matching learning in vision shape representation and recovery stereo and multiple views segmentation and matching object recognition tracking video analysis reflectance image databases vision systems and texture and demo overviews There is no subject index The included CD ROM contains a full version of the proceedings c Book News Inc

1999 IEEE International Conference on Acoustics, Speech, and Signal Processing ,1999   *Video Conferencing Software Enhancements Using DirectX SDK* Peter Ng,2001   *Annales des télécommunications* ,1997-07

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