

# REAL-TIME VIDEO COMPRESSION

The Principles and Algorithms

by Dr. S. K. Saha and Dr. S. K. Saha  
New York, 1998



# Real Time Video Compression Techniques And Algorithms

**Roy Hoffman**



## **Real Time Video Compression Techniques And Algorithms:**

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.

### **Real-Time Video Compression**

Raymond Westwater, Borko Furht, 2013-04-26 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      **Design and Architectures for Digital Signal Processing** Gustavo Ruiz, Juan A. Michell, 2013-01-16 Digital signal processing DSP covers a wide range of applications in which the implementation of high performance systems to meet stringent requirements and performance constraints is receiving increasing attention both in the industrial and academic contexts Conceived to be available to a wide audience the aim of this book is to provide students researchers engineers and the industrial community with a guide to the latest advances in emerging issues in the design and implementation of DSP systems for application specific circuits and programmable devices The book is divided into different sections including real time audio applications optical signal processing image and video processing and advanced architectures and implementations It will enable early stage researchers and developers to deal with the important gap in knowledge in the transition from algorithm specification to the design of architectures for VLSI implementations

*Handbook of Multimedia Computing* Borko Furht, 1998-09-29 Multimedia computing has emerged as a major area of research Coupled with high speed networks multimedia computer systems have opened a spectrum of new applications by combining a variety of information sources such as voice graphics animation images audio and video Handbook on Multimedia Computing provides a comprehensive resource on advanced topics in this field considered here as the integration of four industries computer communication broadcasting entertainment and consumer electronics This indispensable reference compiles contributions from 80 academic and industry leaders examining all the major subsets of multimedia activity Four parts divide the text Basic Concepts and Standards introduces basic multimedia terminology taxonomy and concepts including multimedia objects user interfaces and standards Multimedia Retrieval and Processing Techniques addresses various aspects of audio image and video retrieval indexing and processing techniques and systems Multimedia Systems and Techniques covers critical multimedia issues such as multimedia synchronization operating systems for multimedia multimedia databases storage organizations and processor architectures Multimedia Communications and Networking discusses networking issues such as quality of service resource management and video transport An indispensable reference Handbook on Multimedia Computing covers every aspect of multimedia applications and technology It gives you the tools you need to understand and work in this fast paced continuously changing field      **Wavelet Analysis**

**And Its Applications (In 2 Vols), Proceedings Of The Third International Conference On Waa** Jian Ping Li, Victor Wickerhauser, Yuan Yan Tang, John Daugman, Lizhong Peng, Jing Zhao, 2003-04-11 This book captures the essence of the current state of research in wavelet analysis and its applications and identifies the changes and opportunities both current and future in the field Distinguished researchers such as Prof John Daugman from Cambridge University and Prof Victor Wickerhauser from Washington University present their research papers      **NASA Tech Briefs** ,1995      Multimedia Systems and Techniques Borko Furht, 2012-12-06 Multimedia computing has emerged in the last few years as a major area of research Multimedia computer systems have opened a wide range of applications by combining a variety of information

sources such as voice graphics animation images audio and full motion video Looking at the big picture multimedia can be viewed as the merging of three industries computer communications and broadcasting industries Research and development efforts can be divided into two areas As the first area of research much effort has been centered on the stand alone multimedia workstation and associated software systems and tools such as music composition computer aided education and training and interactive video However the combination of multimedia computing with distributed systems offers even greater potential New applications based on distributed multimedia systems include multimedia information systems collaborative and video conferencing systems on demand multimedia services and distance learning Multimedia Systems and Techniques is one of two volumes published by Kluwer both of which provide a broad introduction into this fast moving area The book covers fundamental concepts and techniques used in multimedia systems The topics include multimedia objects and related models multimedia compression techniques and standards multimedia interfaces multimedia storage techniques multimedia communication and networking multimedia synchronization techniques multimedia information systems scheduling in multimedia systems and video indexing and retrieval techniques Multimedia Systems and Techniques together with its companion volume Multimedia Tools and Applications is intended for anyone involved in multimedia system design and applications and can be used as a textbook for advanced courses on multimedia

*Wavelet Analysis and Its Applications* Jian Ping Li, Jing Zhao, Victor Wickerhauser, Yuan Y. Tang, John Daugman, Lizhong Peng, 2003 This book captures the essence of the current state of research in wavelet analysis and its applications and identifies the changes and opportunities both current and future in the field Distinguished researchers such as Prof John Daugman from Cambridge University and Prof Victor Wickerhauser from Washington University present their research papers Readership Graduate students academics and researchers in computer science and engineering

**Data Compression in Digital Systems** Roy Hoffman, 2012-12-06 Data compression is now indispensable to products and services of many industries including computers communications healthcare publishing and entertainment This invaluable resource introduces this area to information system managers and others who need to understand how it is changing the world of digital systems For those who know the technology well it reveals what happens when data compression is used in real world applications and provides guidance for future technology development

Entity-Relationship Approach - ER '92 Günther Pernul, A Min Tjoa, 1992-10-05 This volume comprises the proceedings of the Eleventh International Conference on the Entity Relationship Approach held in Karlsruhe Germany October 7-9 1992 It contains the full versions of all the 22 accepted papers selected from in total 64 submissions in addition the two invited talks by Scheer and by Tsichritzis and others are represented as full papers and the two other invited speakers contribute extended abstracts All the contributions describe original research related to theoretical or practical aspects of the Entity Relationship Approach reflecting the trend of recent years in a wide range of database research activities In particular the topics database design aspects object orientation integrity constraints query languages knowledge based

techniques and development of new applications are addressed      **Multimedia Technology** Mr. Rohit Manglik, 2024-07-28

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parallel and real time vision and data fusion The paradigm underlying the papers is that robotic systems require repeated and hierarchical application of the perception planning action cycle The primary focus of the papers is the perception part of the cycle Issues related to complete implementations are also discussed Proceedings of the Third International Conference on Wavelet Analysis and Its Applications (WAA) Jian Ping Li, 2003 This book captures the essence of the current state of research in wavelet analysis and its applications and identifies the changes and opportunities OCo both current and future OCo in the field Distinguished researchers such as Prof John Daugman from Cambridge University and Prof Victor Wickerhauser from Washington University present their research papers Contents Volume 1 Accelerating Convergence of Monte Carlo Simulations and Measuring Weak Biosignals Using Wavelet Threshold Denoising M V Wickerhauser One of Image Compression Methods Based on Biorthogonal Wavelet Transform and LBG Algorithm J Lin et al A Video Watermarking Algorithm Using Fast Wavelet J Zhang et al Structural and Geometric Characteristics of Sets of Convergence and Divergence of Multiple Fourier Series of Functions which Equal Zero on Some Set I L Bloshanskii Sequence Images Data Fusion Based on Wavelet Transform Approach H Tao et al Radar Detection of Minimum Altitude Flying Targets Based on Wavelet Transforms H Li et al Precursors of Engine Failures Revealed by Wavelet Analysis I M Dremin Volume 2 Demodulation by Complex Valued Wavelets for Stochastic Pattern Recognition How Iris Recognition Works J Daugman Wavelets and Image Compression V A Nechitailo Fast Wavelet Based Video Codec and its Application in an IP Version 6 Ready Serverless Videoconferencing H L Cycon et al On a Class of Optimal Wavelets N A Strelkov A Wavelet Based Digital Watermarking Algorithm H Q Sun et al Research of the Gyro Signal De Noising Method Based on Stationary Wavelets Transform J Guo et al Adaptive De Noising of Low SNR Signals D Isar Analysis of the DLA Process with Gravitational Interaction of Particles and Growing Cluster A Loskutov et al and other papers Readership Graduate students academics and researchers in computer science and engineering

**Machine Intelligence and Smart Systems** Shikha Agrawal, Kamlesh Kumar Gupta, Jonathan H. Chan, Jitendra Agrawal, Manish Gupta, 2022-05-23 This book is a collection of peer reviewed best selected research papers presented at the Second International Conference on Machine Intelligence and Smart Systems MISS 2021 organized during September 24 25 2021 in Gwalior India The book presents new advances and research results in the fields of machine intelligence artificial intelligence and smart systems It includes main paradigms of machine intelligence algorithms namely 1 neural networks 2 evolutionary computation 3 swarm intelligence 4 fuzzy systems and 5 immunological computation Scientists engineers academicians technology developers researchers students and government officials will find this book useful in handling their complicated real world issues by using machine intelligence methodologies

**Advances in Computation and Intelligence** Xuesong Yan, 2008-12-14 This book constitutes the refereed proceedings of the Third International Symposium on Intelligence Computation and Applications ISICA 2008 held in Wuhan China in December 2008 The 93 revised full papers were carefully reviewed and selected from about 700 submissions The papers are organized in

topical sections on computational intelligence evolutionary computation evolutionary multi objective and dynamic optimization evolutionary learning systems neural networks classification and recognition bioinformatics and bioengineering evolutionary data mining and knowledge discovery intelligent GIS and control theory of intelligent computation combinational and numerical optimization as well as real world applications      *Proceedings of International Conference on Recent Advancement on Computer and Communication* Basant Tiwari,Vivek Tiwari,Kinkar Chandra Das,Durgesh Kumar Mishra,Jagdish C. Bansal,2018-04-18 The book is a compilation of best papers presented at International Conference on Recent Advancement in Computer and Communication ICRAC 2017 organized by IMPLab Research and Innovation Foundation Bhopal India The book covers all aspects of computers and communication techniques including pervasive computing distributed computing cloud computing sensor and adhoc network image text and speech processing pattern recognition and pattern analysis digital signal processing digital electronics telecommunication technologies robotics VLSI technologies embedded system satellite communication digital signal processing and digital communication The papers included are original research works of experts from industry government centers and academic institutions experienced in engineering design and research      The Algorithm Design Manual: Text Steven S. Skiena,1998 This volume helps take some of the mystery out of identifying and dealing with key algorithms Drawing heavily on the author s own real world experiences the book stresses design and analysis Coverage is divided into two parts the first being a general guide to techniques for the design and analysis of computer algorithms The second is a reference section which includes a catalog of the 75 most important algorithmic problems By browsing this catalog readers can quickly identify what the problem they have encountered is called what is known about it and how they should proceed if they need to solve it This book is ideal for the working professional who uses algorithms on a daily basis and has need for a handy reference This work can also readily be used in an upper division course or as a student reference guide THE ALGORITHM DESIGN MANUAL comes with a CD ROM that contains a complete hypertext version of the full printed book the source code and URLs for all cited implementations over 30 hours of audio lectures on the design and analysis of algorithms are provided all keyed to on line lecture notes



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