

# 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

**Borko Furht**



## **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, 2014-01-15      *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.      *Wavelet Analysis And Its Applications (In 2 Vols)*, *Proceedings Of The Third International Conference On Wavelet Analysis And Its Applications* 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      **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* 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 **Algorithms—Advances in Research and Application: 2013 Edition**, 2013-06-21 Algorithms Advances in Research and Application 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Coloring Algorithm The editors have built Algorithms Advances in Research and Application 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Coloring Algorithm in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Algorithms Advances in Research and Application 2013 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Advanced Intelligent Computing Theories and Applications* De-Shuang Huang, Laurent Heutte, Marco Loog, 2007-08-10 This volume in conjunction with the two volumes LNCS 4681 and LNAI 4682 constitutes the refereed proceedings of the Third International Conference on Intelligent Computing held in Qingdao China in August 2007

The conference sought to establish contemporary intelligent computing techniques as an integral method that underscores trends in advanced computational intelligence and links theoretical research with applications *Fast Transforms*

*Algorithms, Analyses, Applications* Douglas F. Elliott, K. Ramamohan Rao, 1983-03-09 This book has grown from notes used by the authors to instruct fast transform classes One class was sponsored by the Training Department of Rockwell International and another was sponsored by the Department of Electrical Engineering of The University of Texas at Arlington Some of the material was also used in a short course sponsored by the University of Southern California The authors are indebted to their students for motivating the writing of this book and for suggestions to improve it **Active Perception and Robot Vision**

Arun K. Sood, Harry Wechsler, 2012-12-06 Intelligent robotics has become the focus of extensive research activity This effort has been motivated by the wide variety of applications that can benefit from the developments These applications often involve mobile robots multiple robots working and interacting in the same work area and operations in hazardous environments like nuclear power plants Applications in the consumer and service sectors are also attracting interest These applications have highlighted the importance of performance safety reliability and fault tolerance This volume is a selection of papers from a NATO Advanced Study Institute held in July 1989 with a focus on active perception and robot vision The papers deal with such issues as motion understanding 3 D data analysis error minimization object and environment modeling object detection and recognition 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 **Coding and Modulation for Digital Television**

Gordon M. Drury, Garik Markarian, Keith Pickavance, 2006-04-11 Coding and Modulation for Digital Television presents a comprehensive description of all error control coding and digital modulation techniques used in Digital Television DTV This book illustrates the relevant elements from the expansive theory of channel coding to how the transmission environment dictates the choice of error control coding and digital modulation schemes These elements are presented in such a way that both the mathematical integrity and understanding for engineers are combined in a complete form and supported by a number of practical examples In addition the book contains descriptions of the existing standards and provides a valuable source of corresponding references Coding and Modulation for Digital Television also features a description of the latest techniques providing the reader with a glimpse of future digital broadcasting These include the concepts of soft in soft out decoding turbo coding and cross correlated quadrature modulation all of which will have a prominent future in improving efficiency of the next generation DTV systems Coding and Modulation for Digital Television is essential reading for all undergraduate and postgraduate students broadcasting and communication engineers researchers marketing managers regulatory bodies governmental organizations and standardization institutions of the digital television industry 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 a total of 64 submissions in addition to the two invited talks by Scheer and by Tschritzis 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 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.

### **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 *Communication, Management and Information Technology* Marcelo Sampaio de Alencar, 2016-11-03 Communication Management and Information Technology contains the contributions presented at the International Conference on Communication Management and Information Technology ICCMIT 2016 Cosenza Italy 26-29 April 2016 organized by the Universal Society of Applied Research USAR The book aims at researchers scientists engineers and scholar students interested or involved in Computer Science and Systems Communication and Management **Image Processing &**

**Communications Challenges 6** Ryszard S. Choraś, 2014-08-25 This book collects a series of research papers in the area of Image Processing and Communications which not only introduce a summary of current technology but also give an outlook of potential future problems in this area The key objective of the book is to provide a collection of comprehensive references on some recent theoretical development as well as novel applications in image processing and communications The book is divided into two parts and presents the proceedings of the 6th International Image Processing and Communications Conference IP C 2014 held in Bydgoszcz 10-12 September 2014 Part I deals with image processing A comprehensive survey of different methods of image processing computer vision is also presented Part II deals with the telecommunications networks and computer networks Applications in these areas are considered



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