

# Efficient Algorithms for MPEG Video Compression

*DZUNG TIEN HOANG*  
*JEFFREY SCOTT VITTER*

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# Efficient Algorithms For Mpeg Video Compression

**Kaveh Pahlavan, Allen H. Levesque**



## **Efficient Algorithms For Mpeg Video Compression:**

**Efficient Algorithms for MPEG Video Compression** Dzung Tien Hoang, Jeffrey Scott Vitter, 2002-02-21 Video compression is the enabling technology behind many cutting edge business and Internet applications including video conferencing video on demand and digital cable TV Coauthored by internationally recognized authorities on the subject this book takes a close look at the essential tools of video compression exploring some of the most promising algorithms for converting raw data to a compressed form *Efficient Algorithms for Mpeg Video Compression* Hoang, 2003-05-01

**Fundamental Data Compression** Ida Mengyi Pu, 2005-11-03 Fundamental Data Compression provides all the information students need to be able to use this essential technology in their future careers A huge active research field and a part of many people s everyday lives compression technology is an essential part of today s Computer Science and Electronic Engineering courses With the help of this book students can gain a thorough understanding of the underlying theory and algorithms as well as specific techniques used in a range of scenarios including the application of compression techniques to text still images video and audio Practical exercises projects and exam questions reinforce learning along with suggestions for further reading Dedicated data compression textbook for use on undergraduate courses Provides essential knowledge for today s web multimedia applications Accessible well structured text backed up by extensive exercises and sample exam questions *Advances in Multimedia Information Processing - PCM 2005* Yo-Sung Ho, 2005-10-31 The two volume set LNCS 3767 and LNCS 3768 constitutes the refereed proceedings of the 6th Pacific Rim Conference on Multimedia PCM 2005 held in Jeju Island Korea in November 2005 The 181 revised papers presented were carefully reviewed and selected from a total of 570 submissions The papers cover a wide range of topics including all aspects of multimedia both technical and artistic perspectives and both theoretical and practical issues Besides papers that focus on traditional topics such as multimedia communications audio visual compressions multimedia security image and signal processing techniques and multimedia data processing there are also artistic papers which need not to be strictly technical

**Handbook of Video Databases** Borko Furht, Oge Marques, 2003-09-30 Technology has spurred the growth of huge image and video libraries many growing into the hundreds of terabytes As a result there is a great demand among organizations for the design of databases that can effectively support the storage search retrieval and transmission of video data Engineers and researchers in the field demand a comprehensive reference that will help them design and implement the most complex video database projects Handbook of Video Databases Design and Applications presents a thorough overview in 45 chapters from more than 100 renowned experts in the field This book provides the tools to help overcome the problems of storage cataloging and retrieval by exploring content standardization and other content classification and analysis methods The challenge of these complex problems make this book a must have for video database practitioners in the fields of image and video processing computer vision multimedia systems data mining and many other diverse disciplines

**Introduction to Digital Image Processing** William K. Pratt, 2013-09-13 The subject of digital image processing has migrated from a graduate to a junior or senior level course as students become more proficient in mathematical background earlier in their college education With that in mind Introduction to Digital Image Processing is simpler in terms of mathematical derivations and eliminates derivations of advanced s *Broadband Last Mile* Nikil Jayant, 2018-10-03 Broadband Last Mile Access Technologies for Multimedia Communications provides in depth treatments of access technologies and the applications that rely upon them or support them It examines innovations and enhancements along multiple dimensions in access with the overarching goal of ensuring that the last mile is not the weak link in the broadband chain Written by experts from the academic and commercial segments of the field the book s self contained sections address topics related to the disciplines of communications networking computing and signal processing The core of this treatment contains contemporary reviews of broadband pipes in the classes of copper cable fiber wireless and satellite It emphasizes the coexistence of these classes within a network the importance of optical communications for unprecedented bandwidth and the flexibility and mobility provided by wireless The book also includes perspective on the increasingly important topic of network management providing insights that are true regardless of the nature of the pipe The text concludes with a discussion of newly emerging applications and broadband services This book offers an all in one treatment of the physical pipes and network architectures that make rich and increasingly personalized applications possible It serves as a valuable resource for researchers and practitioners working in the increasingly pervasive field of broadband *Information Security* Masahiro Mambo, Yuliang Zheng, 2003-07-31 This book constitutes the refereed proceedings of the Second International Information Security Workshop ISW 99 held in Kuala Lumpur Malaysia in November 1999 The 23 revised full papers presented were carefully reviewed and selected from 38 submissions The book is divided in topical sections on electronic money electronic payment and unlinkability secure software components mobile agents and authentication network security digital watermarking protection of software and data key recovery and electronic voting and digital signatures

Multimedia Signals and Systems Mrinal Kr. Mandal, 2012-12-06 Multimedia Signals and Systems is primarily a technical introductory level multimedia textbook including problems examples and MATLAB codes It will be a stepping stone for readers who want to research in audio processing image and video processing and data compression This book will also be useful to readers who are carrying out research and development in systems areas such as television engineering and storage media Anyone who seeks to learn the core multimedia signal processing techniques and systems will need Multimedia Signals and Systems There are many chapters that are generic in nature and provide key concepts of multimedia systems to technical as well as non technical persons There are also several chapters that provide a mathematical analytical framework for basic multimedia signal processing The readers are expected to have some prior knowledge about discrete signals and systems such as Fourier transform and digital filters However a brief review of these theories is provided

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Levin, 2014-09-06 This book examines seven key combinatorial engineering frameworks composite schemes consisting of algorithms and/or interactive procedures for hierarchical modular composite systems These frameworks are based on combinatorial optimization problems e.g. knapsack problem multiple choice problem assignment problem morphological clique problem with the author's version of morphological design approach Hierarchical Morphological Multicriteria Design HMMD providing a conceptual lens with which to elucidate the examples discussed This approach is based on ordinal estimates of design alternatives for systems parts components however the book also puts forward an original version of HMMD that is based on new interval multiset estimates for the design alternatives with special attention paid to the aggregation of modular solutions system versions The second part of *Modular System Design and Evaluation* provides ten information technology case studies that enriches understanding of the design of system design detection of system bottlenecks and system improvement amongst others The book is intended for researchers and scientists students and practitioners in many domains of information technology and engineering The book is also designed to be used as a text for courses in system design systems engineering and life cycle engineering at the level of undergraduate level graduate PhD levels and for continuing education The material and methods contained in this book were used over four years in Moscow Institute of Physics and Technology State University in the author's faculty course System Design **Multimedia**

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Engineering Handbook Vojin G. Oklobdzija, 2001-12-26 There is arguably no field in greater need of a comprehensive handbook than computer engineering The unparalleled rate of technological advancement the explosion of computer applications and the now in progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own References published only a few years ago are now sorely out of date The *Computer Engineering Handbook* changes all of that Under the leadership of Vojin Oklobdzija and a stellar editorial board

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***Wireless Information Networks*** Kaveh Pahlavan, Allen H. Levesque, 2005-10-24 Towards location-aware mobile ad hoc sensors. A Systems Engineering Approach to Wireless Information Networks. The Second Edition of this internationally respected textbook brings readers fully up to date with the myriad of developments in wireless communications. When first published in 1995, wireless communications was synonymous with cellular telephones. Now, wireless information networks are the most important technology in all branches of telecommunications. Readers can learn about the latest applications in such areas as ad hoc sensor networks, home networking, and wireless positioning. *Wireless Information Networks* takes a systems engineering approach; technical topics are presented in the context of how they fit into the ongoing development of new systems and services, as well as the recent developments in national and international spectrum allocations and standards. The authors have organized the myriad of current and emerging wireless technologies into logical categories. *Introduction to Wireless Networks* presents an up-to-the-moment discussion of the evolution of the cellular industry from analog cellular technology to 2G, 3G, and 4G, as well as the emergence of WLAN and WPAN as broadband ad hoc networks. *Characteristics of Radio Propagation* includes new coverage of channel modeling for space-time MIMO and UWB communications and wireless geolocation networks. *Modem Design* offers new descriptions of space-time coding, MIMO antenna systems, UWB communications, and multi-user detection and interference cancellation techniques used in CDMA networks. *Network Access and System Aspects* incorporates new chapters on UWB systems and RF geolocations, with a thorough revision of wireless access techniques and wireless systems and standards. Exercises that focus on real-world problems are provided at the end of each chapter. The mix of assignments, which includes computer projects and questionnaires in addition to traditional problem sets, helps readers focus on key issues and develop the skills they need to solve actual engineering problems. Extensive references are provided for those readers who would like to explore particular topics in greater depth. With its emphasis on knowledge building to solve problems, this is an excellent graduate-level textbook. Like the previous edition, this latest edition will also be a standard reference for the telecommunications industry.

**Soft Computing Approach to Pattern Recognition and Image Processing** Ashish Ghosh, Sankar K. Pal, 2002 This volume provides a collection of sixteen articles containing review and new material. In a unified way, they describe the recent development of theories and methodologies in pattern recognition, image processing, and vision using fuzzy logic, artificial neural networks, genetic algorithms, rough sets, and wavelets, with significant real-life applications. The book details the theory of granular computing and the role of a rough

neuro approach as a way of computing with words and designing intelligent recognition systems It also demonstrates applications of the soft computing paradigm to case based reasoning data mining and bio informatics with a scope for future research The contributors from around the world present a balanced mixture of current theory algorithms and applications making the book an extremely useful resource for students and researchers alike      **Telecommunication System**

**Engineering** Roger L. Freeman, 2004-06-11 From the review of the Third Edition A must for anyone involved in the practical aspects of the telecommunications industry CHOICE Outlines the expertise essential to the successful operation and design of every type of telecommunications networks in use today New edition is fully revised and expanded to present authoritative coverage of the important developments that have taken place since the previous edition was published Includes new chapters on hot topics such as cellular radio asynchronous transfer mode broadband technologies and network management

Lossless Compression Handbook Khalid Sayood, 2002-12-18 The 21 chapters in this handbook are written by the leading experts in the world on the theory techniques applications and standards surrounding lossless compression As with most applied technologies the standards section is of particular importance to practicing design engineers In order to create devices and communication systems that can communicate and be compatible with other systems and devices standards must be followed Clearly explains the process of compression and transmission of multimedia signals Invaluable resource for engineers dealing with image processing signal processing multimedia systems wireless technology and more      Signaling in Telecommunication Networks John G. van Bosse, Fabrizio U. Devetak, 2006-12-20 Guidance to help you grasp even the most complex network structures and signaling protocols The Second Edition of Signaling in Telecommunication Networks has been thoroughly updated offering new chapters and sections that cover the most recent developments in signaling systems and procedures This acclaimed book covers subscriber and network signaling in both fixed and mobile networks Coverage begins with an introduction to circuit switched telephone networks including an examination of trunks exchanges access systems transmission systems and other basic components Next the authors introduce signaling concepts beginning with older Channel Associated Signaling CAS systems and progressing to today's Common Channel Signaling CCS systems The book then examines packet networks and their use in transmitting voice VoIP TCP IP protocols VoIP signaling protocols and ATM protocols Throughout the book the authors emphasize functionality particularly the roles of individual protocols and how they fit in network architectures helping readers grasp even the most complex network structures and signaling protocols Highlights of the Second Edition include Coverage of the latest developments and topics including new chapters on access networks intelligent network application part signaling for voice communication in packet networks and ATM signaling Drawings and tables that help readers understand and visualize complex systems Comprehensive updated references for further study Examples to help readers make the bridge from theory to application With the continued growth and expansion of the telecommunications industry the Second Edition is essential reading for telecommunications students as

well as anyone involved in this dynamic industry needing a solid understanding of the different signaling systems and how they work Moreover the book helps readers wade through the voluminous and complex technical standards by providing the essential structure terminology and functionality needed to understand them      **Soft Computing Approach Pattern**

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