Managing Gigabytes: Compressing and Indexing Documents and Images, Second Edition (The Morgan Kaufmann Series in Multimedia Information and Systems)



Managing Gigabytes Compressing And Indexing
Documents And Images Second Edition The Morgan
Kaufmann Series In Multimedia Information And
Systems

Pauline Rafferty, Rob Hidderley

Managing Gigabytes Compressing And Indexing Documents And Images Second Edition The Morgan Kaufmann Series In Multimedia Information And Systems:

Managing Gigabytes Ian H. Witten, Alistair Moffat, Timothy C. Bell, 1999-05-03 This book is the Bible for anyone who needs to manage large data collections It's required reading for our search gurus at Infoseek The authors have done an outstanding job of incorporating and describing the most significant new research in information retrieval over the past five years into this second edition Steve Kirsch Cofounder Infoseek Corporation The new edition of Witten Moffat and Bell not only has newer and better text search algorithms but much material on image analysis and joint image text processing If you care about search engines you need this book it is the only one with full details of how they work The book is both detailed and enjoyable the authors have combined elegant writing with top grade programming Michael Lesk National Science Foundation The coverage of compression file organizations and indexing techniques for full text and document management systems is unsurpassed Students researchers and practitioners will all benefit from reading this book Bruce Croft Director Center for Intelligent Information Retrieval at the University of Massachusetts In this fully updated second edition of the highly acclaimed Managing Gigabytes authors Witten Moffat and Bell continue to provide unparalleled coverage of state of the art techniques for compressing and indexing data Whatever your field if you work with large quantities of information this book is essential reading an authoritative theoretical resource and a practical guide to meeting the toughest storage and access challenges It covers the latest developments in compression and indexing and their application on the Web and in digital libraries It also details dozens of powerful techniques supported by mg the authors own system for compressing storing and retrieving text images and textual images mg s source code is freely available on the Web **Introduction to** Data Compression Khalid Sayood, 2012-10-04 Introduction to Data Compression Fourth Edition is a concise and comprehensive guide to the art and science of data compression. This new edition includes all the cutting edge updates the reader will need during the work day and in class It provides an extensive introduction to the theory underlying today s compression techniques with detailed instruction for their applications using several examples to explain the concepts Encompassing the entire field of data compression this book covers lossless and lossy compression Huffman coding arithmetic coding dictionary techniques context based compression scalar and vector quantization New to this fourth edition is a more detailed description of the JPEG 2000 standard as well as speech coding for internet applications A source code is also provided via a companion web site that gives readers the opportunity to build their own algorithms choose and implement techniques in their own applications This text will appeal to professionals software and hardware engineers students and anyone interested in digital libraries and multimedia New content added to include a more detailed description of the JPEG 2000 standard New content includes speech coding for internet applications Explains established and emerging standards in depth including JPEG 2000 JPEG LS MPEG 2 H 264 JBIG 2 ADPCM LPC CELP MELP and iLBC Source code

provided via companion web site that gives readers the opportunity to build their own algorithms choose and implement techniques in their own applications
Digital Watermarking and Steganography Ingemar Cox, Matthew Miller, Jeffrey Bloom, Jessica Fridrich, Ton Kalker, 2007-11-23 Digital audio video images and documents are flying through cyberspace to their respective owners Unfortunately along the way individuals may choose to intervene and take this content for themselves Digital watermarking and steganography technology greatly reduces the instances of this by limiting or eliminating the ability of third parties to decipher the content that he has taken The many techniques of digital watermarking embedding a code and steganography hiding information continue to evolve as applications that necessitate them do the same The authors of this second edition provide an update on the framework for applying these techniques that they provided researchers and professionals in the first well received edition Steganography and steganalysis the art of detecting hidden information have been added to a robust treatment of digital watermarking as many in each field research and deal with the other New material includes watermarking with side information QIM and dirty paper codes The revision and inclusion of new material by these influential authors has created a must own book for anyone in this profession This new edition now contains essential information on steganalysis and steganography New concepts and new applications including QIM introduced Digital watermark embedding is given a complete update with new processes and applications

Bioinformatics Zoé Lacroix, Terence Critchlow, 2003-07-18 The heart of the book lies in the collaboration efforts of eight distinct bioinformatics teams that describe their own unique approaches to data integration and interoperability Each system receives its own chapter where the lead contributors provide precious insight into the specific problems being addressed by the system why the particular architecture was chosen and details on the system's strengths and weaknesses In closing the editors provide important criteria for evaluating these systems that bioinformatics professionals will find valuable Provides a clear overview of the state of the art in data integration and interoperability in genomics highlighting a variety of systems and giving insight into the strengths and weaknesses of their different approaches How to Build a Digital Library Ian H. Witten, David Bainbridge, David M. Nichols, 2009-11-09 How to Build a Digital Library reviews knowledge and tools to construct and maintain a digital library regardless of the size or purpose A resource for individuals agencies and institutions wishing to put this powerful tool to work in their burgeoning information treasuries The Second Edition reflects developments in the field as well as in the Greenstone Digital Library open source software In Part I the authors have added an entire new chapter on user groups user support collaborative browsing user contributions and so on There is also new material on content based queries map based queries cross media queries There is an increased emphasis placed on multimedia by adding a digitizing section to each major media type A new chapter has also been added on internationalization which will address Unicode standards multi language interfaces and collections and issues with non European languages Chinese Hindi etc Part II the software tools section has been completely rewritten to reflect the new

developments in Greenstone Digital Library Software an internationally popular open source software tool with a comprehensive graphical facility for creating and maintaining digital libraries Outlines the history of libraries on both traditional and digital Written for both technical and non technical audiences and covers the entire spectrum of media including text images audio video and related XML standards Web enhanced with software documentation color illustrations full text index source code and more Digital Watermarking Ingemar Cox, Matthew Miller, Jeffrey Bloom, Mathew Miller, 2001-10-17 Digital watermarking is a key ingredient to copyright protection. It provides a solution to illegal copying of digital material and has many other useful applications such as broadcast monitoring and the recording of electronic transactions Now for the first time there is a book that focuses exclusively on this exciting technology Digital Watermarking covers the crucial research findings in the field it explains the principles underlying digital watermarking technologies describes the requirements that have given rise to them and discusses the diverse ends to which these technologies are being applied As a result additional groundwork is laid for future developments in this field helping the reader understand and anticipate new approaches and applications Emphasizes the underlying watermarking principles that are relevant for all media images video and audio Discusses a wide variety of applications theoretical principles detection and embedding concepts and the key properties of digital watermarks robustness fidelity data payload and security Examines copyright protection and many other applications including broadcast monitoring transaction tracking authentication copy control and device control Presents a series of detailed examples called Investigations that illustrate key watermarking concepts and practices Includes an appendix in the book and on the web containing the source code for the examples Includes a comprehensive glossary of watermarking terminology Proceedings ,2003 The British National Bibliography Arthur James Wells, 2002 Internet Imaging ,2003 Computer Science'99 Jenny Edwards, 1999-04 Walks through Prague that both bring the history of the city to life and take the visitor on a fascinating journey through time The comprehensive guidebook to modern architecture of Prague shows its development from the Art Nouveau and beginnings of the Modern Style at the turn of the 20th century the unique Cubist buildings from the years before World War I the National Style of the newly established Czechoslovak Republic the functionalist avantgarde of the inter war period the most remarkable examples of post World War II buildings and the revival of architectural production after 1989 200 pages encompass 225 entries presenting buildings from 1900 to 1997 Each of them contains a descriptive text black white period photographs selected entries are provided with plans City map on 14 gatefold pages registers according to architects chronology and typology The pocket sized book is an indispensable companion to everybody s discovering the vast architectural heritage of the Czech capital Digital Compression for Multimedia Jerry D. Gibson, 1998-01-15 Digital Compression for Multimedia captures in a single reference the current standards for speech audio video image fax and file compression It is intended for engineers and computer scientists designing and implementing compression techniques system integrators technical managers and

researchers The essential ideas and motivation behind the various compression methods are presented and insight is **Introduction to Data Compression** Khalid Sayood, 2000 And the provided into the evolution of the standards downloadable software gives you the opportunity to see firsthand how various algorithms work to choose and implement appropriate techniques in your own applications and to build your own algorithms BOOK JACKET **Information Retrieval** Stefan M. Rüger, 2010 Supporting users in their resource discovery mission when hunting for multimedia material is not a technological indexing problem alone We look at interactiveways of engaging with repositories through browsing and relevance feedback roping in geographical context and providing visual summaries for videos The book concludes with an overview of state of the art research projects in the area of multimedia information retrieval which gives an indication of the research and development trends and thereby a glimpse of the future world Multimedia and Creative Works Pauline Rafferty, Rob Hidderley, 2017-03-02 Indexing and information retrieval work properly only if language and interpretation are shared by creator and user This is more complex for non verbal media The authors of Indexing Multimedia and Creative Works explore these challenges against a background of different theories of language and communication particularly semiotics questioning the possibility of ideal multimedia indexing After surveying traditional approaches to information retrieval IR and organization in relation to issues of meaning particularly Panofsky's levels of meaning Pauline Rafferty and Rob Hidderley weigh up the effectiveness of major IR tools cataloguing classification and indexing and computerised IR highlighting key questions raised by state of the art computer language processing systems Introducing the reader to the fundamentals of semiotics through the thinking of Saussure Peirce and Sonesson they make the case for this as the basis for successful multimedia information retrieval The authors then describe specific multimedia information retrieval tools namely the Art and Architecture Thesaurus Iconclass and the Library of Congress Thesaurus of General Materials I and II A selection of multimedia objects including photographic images abstract images music the spoken word and film are read using analytical and descriptive categories derived from the literature of semiotics Multimedia information retrieval tools are also used to index the multimedia objects an exercise which demonstrates the richness of the semiotic approach and the limitations of controlled vocabulary systems In the final chapter the authors reflect on the issues thrown up by this comparison and explore alternatives such as democratic user generated indexing as an alternative Primarily intended for third year undergraduate and postgraduate information studies students the breadth and depth of Indexing Multimedia and Creative Works will also make it relevant and fascinating rea **Image and Video Compression** for Multimedia Engineering Yun-Qing Shi, Huifang Sun, 2017-12-19 Multimedia hardware still cannot accommodate the demand for large amounts of visual data Without the generation of high quality video bitstreams limited hardware capabilities will continue to stifle the advancement of multimedia technologies Thorough grounding in coding is needed so that applications such as MPEG 4 and JPEG 2000 may come to fruition Image and Video Compression for Multimedia

Engineering provides a solid comprehensive understanding of the fundamentals and algorithms that lead to the creation of new methods for generating high quality video bit streams The authors present a number of relevant advances along with international standards New to the Second Edition A chapter describing the recently developed video coding standard MPEG Part 10 Advances Video Coding also known as H 264 Fundamental concepts and algorithms of JPEG2000 Color systems of digital video Up to date video coding standards and profiles Visual data image and video coding will continue to enable the creation of advanced hardware suitable to the demands of new applications Covering both image and video compression this book yields a unique self contained reference for practitioners tobuild a basis for future study research and development

Multimedia Retrieval Henk M. Blanken, Arjen P. de Vries, Henk Ernst Blok, Ling Feng, 2007-08-13 Based on more than 10 years of teaching experience Blanken and his coeditors have assembled all the topics that should be covered in advanced undergraduate or graduate courses on multimedia retrieval and multimedia databases The single chapters of this textbook explain the general architecture of multimedia information retrieval systems and cover various metadata languages such as Dublin Core RDF or MPEG The authors emphasize high level features and show how these are used in mathematical models to support the retrieval process For each chapter there's detail on further reading and additional exercises and teaching material is available online Data Management for Multimedia Retrieval K. Selcuk Candan, 2014 Challenges in <u>Indexing Electronic Text and Images</u> American Society for Information Science,1994 *Image and Video Compression* Standards Vasudev Bhaskaran, Konstantinos Konstantinides, 1997-06-30 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 **Compression for Multimedia** Irina Bocharova, 2010 Provides a thorough theoretical understanding of lossy compression techniques and systems plus key features applications implementation issues and design trade offs

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