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Introduction To Data Compression, 3E Morgan & Claypool Publishers

This book is intended for anyone trying to learn the fundamentals of computer programming. The chapters lead the reader through the various steps required for writing a program, introducing the MATLAB® constructs in the process. MATLAB® is used to teach programming because it has a simple programming environment. It has a low initial overhead which allows the novice programmer to begin programming immediately and allows the users to easily debug their programs. This is especially useful for people who have a “mental block” about computers. Although MATLAB® is a high-level language and interactive environment that enables the user to perform computationally intensive tasks faster than with traditional programming languages such as C, C++, and Fortran, the author shows that it can also be used as a programming learning tool for novices. There are a number of exercises at the end of each chapter which should help users

become comfortable with the language.

A Concise Introduction to Data Compression Springer Nature

Blind image deconvolution is constantly receiving increasing attention from the academic as well the industrial world due to both its theoretical and practical implications. The field of blind image deconvolution has several applications in different areas such as image restoration, microscopy, medical imaging, biological imaging, remote sensing, astronomy, nondestructive testing, geophysical prospecting, and many others. Blind Image Deconvolution: Theory and Applications surveys the current state of research and practice as presented by the most recognized experts in the field, thus filling a gap in the available literature on blind image deconvolution. Explore the gamut of blind image deconvolution approaches and algorithms that currently exist and follow the current research trends into the future. This comprehensive treatise discusses Bayesian techniques, single- and multi-channel methods, adaptive and multi-frame techniques, and a host of applications to multimedia processing, astronomy, remote sensing imagery, and medical and biological imaging at the whole-body, small-part, and cellular levels. Everything you need to step

into this dynamic field is at your fingertips in this unique, self-contained masterwork. For image enhancement and restoration without a priori information, turn to Blind Image Deconvolution: Theory and Applications for the knowledge and techniques you need to tackle real-world problems. [Wavelets for Computer Graphics](#) Springer Science & Business Media Reporting the state of the art of colour image processing, this monograph fills a gap in the literature on digital signal and image processing. It contains numerous examples and pictures of colour image processing results, plus a library of algorithms implemented in C. *Data Compression* Addison-Wesley Professional 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

Residue Number Systems Morgan Kaufmann

The rapid advances and industry demands for networked delivery of information and pictures through computer networks and cable television has created a need for new techniques and standards for the packaging and delivery of digital information. Multimedia Communications presents the latest information from industry and academic experts on all standards, methods and protocols. Internet protocols for wireless communications, transcoding of Internet multimedia for universal access, ATM and ISDN chapters, videoconferencing standards, speech and audio coding standards, multi-casting and image compression techniques are included. - Latest Internet protocols for wireless communications - Transcoding of Internet multimedia for universal access - ATM and ISDN chapters - Videoconferencing standards - Speech and audio coding standards - Multi-casting - Latest image compression techniques

PNG Morgan Kaufmann

Whatever your field, if you work with large quantities of information, this bundle is essential reading - an authoritative theoretical resource and a practical guide to meeting the toughest storage and access challenges. Introduction to Data Compression is the best introduction and reference text on the art and science of data compression. Data compression techniques and technology are ever-evolving with new applications in image, speech, text, audio, and video; this third edition includes all the cutting edge updates you will need. Managing Gigabytes provides unparalleled coverage of state-of-the-art techniques for compressing and indexing data. It covers the latest developments in compression and indexing and their application on the Web and in digital libraries Bundled together to save you money, this is the best value, high quality resource on data management for students and professionals alike.

Data Compression "O'Reilly Media, Inc."

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Fundamental Data Compression Englewood Cliffs, N.J. : Prentice Hall

"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 provided into the evolution of the standards.

Handbook of Data Compression Morgan Kaufmann

Trigonometry is the branch of science that studies triangles, paying particularly close attention to the measurements between the triangle's points and the angles of the triangle's three corners. Trigonometry is used for a variety of fields, including tailoring, landscaping and architecture. One great reason for people studying trigonometry to have charts is that there are many different formulas used to determine angles and measurements. Having a chart that showed different kinds of triangles and the formulas associated with them is quite handy!

Hyperspectral Data Compression Springer Science & Business Media

Compiled for professionals working in designing, building and implementing multimedia-related hardware and applications, this volume examines media and content processing, systems-based solutions and networking support for multimedia data types.

Introduction to Data Compression Butterworth-Heinemann

Annotation Each edition of Introduction to Data Compression has widely been considered the best

introduction and reference text on the art and science of data compression, and the third edition continues in this tradition. Data compression techniques and technology are ever-evolving with new applications in image, speech, text, audio, and video. The third edition includes all the cutting edge updates the reader will need during the work day and in class. Khalid Sayood 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 Introduction to Data Compression, includes lossless and lossy compression, Huffman coding, arithmetic coding, dictionary techniques, context based compression, scalar and vector quantization. Khalid Sayood provides a working knowledge of data compression, giving the reader the tools to develop a complete and concise compression package upon completion of his book.

Understanding Circuits Springer Science & Business Media

And the 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.

Learning Programming Using Matlab Morgan Kaufmann

This introduction to wavelets provides computer graphics professionals and researchers with the mathematical foundations for understanding and applying this powerful tool.

Programming Collective Intelligence Springer Science & Business Media

James A. Storer Computer Science Dept. Brandeis University Waltham, MA 02254 Data

compression is the process of encoding a body of data to reduce storage requirements. With lossless compression, data can be decompressed to be identical to the original, whereas with lossy compression, decompressed data may be an acceptable approximation (according to some fidelity criterion) to the original. For example, with digitized video, it may only be necessary that the decompressed video look as good as the original to the human eye. The two primary functions of data compression are: Storage: The capacity of a storage device can be effectively increased with data compression software or hardware that compresses a body of data on its way to the storage device and decompress it when it is retrieved. Communications: The bandwidth of a digital communication link can be effectively increased by compressing data at the sending end and decompressing data at the receiving end. Here it can be crucial that compression and decompression can be performed in real time.

The MPEG Handbook Morgan Kaufmann

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

Text Compression Morgan Kaufmann

Introduction to Data Compression, Fifth Edition, builds on the success of what is widely considered the best introduction and reference text on the art and science of data compression. Data compression techniques and technology are ever-evolving with new applications in image, speech, text, audio and video. This new edition includes all the latest developments in the field. Khalid Sayood 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, the book includes lossless and lossy compression, Huffman coding, arithmetic coding, dictionary techniques, context based

compression, and scalar and vector quantization. The book provides a comprehensive working knowledge of data compression, giving the reader the tools to develop a complete and concise compression package. - Explains established and emerging standards in-depth, including JPEG 2000, JPEG-LS, MPEG-2, H.264, JBIG 2, ADPCM, LPC, CELP, MELP, iLBC and the new HEVC standard - Includes more coverage of lattices in vector quantization - Contains improved and expanded end-of-chapter problems - Source code is provided via a companion website that gives readers the opportunity to build their own algorithms and choose and implement techniques in their own applications

Blind Image Deconvolution Elsevier

From a senior researcher who helped design the PNG image format comes a guide that focuses on implementing PNG with the libpng C library and discusses improvements, such as gamma correction and the standard color spaces for precise reproduction of image colors on a wide range of systems.

Fundamentals of Multimedia Springer Science & Business Media

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

Trigonometry (Speedy Study Guides) Morgan Kaufmann

This book provides a comprehensive reference for the many different types and methods of compression. Included are a detailed and helpful taxonomy, analysis of most common methods, and discussions on the use and comparative benefits of methods and description of "how to" use them. Detailed descriptions and explanations of the most well-known and frequently used compression methods are covered in a self-contained fashion, with an accessible style and technical level for specialists and nonspecialists. Comments and suggestions of many readers have been included as a benefit to future readers, and a website is maintained and updated by the author.

The Burrows-Wheeler Transform: "O'Reilly Media, Inc."

Data compression is one of the most important fields and tools in modern computing. From archiving data, to CD-ROMs, and from coding theory to image analysis, many facets of modern computing rely upon data compression. This book provides a comprehensive reference for the many different types and methods of compression. Included are a detailed and helpful taxonomy, analysis of most common methods, and discussions on the use and comparative benefits of methods and description of "how to" use them. Detailed descriptions and explanations of the most well-known and frequently used compression methods are covered in a self-contained fashion, with an accessible style and technical level for specialists and non-specialists.

Best Sellers - Books :

- [Fahrenheit 451](#) By Ray Bradbury
- [The Shadow Work Journal: A Guide To Integrate And Transcend Your Shadows](#) By Keila Shaheen
- [The Ballad Of Songbirds And Snakes \(a Hunger Games Novel\)](#) (the Hunger Games)
- [Remarkably Bright Creatures: A Read With Jenna Pick](#)
- [Flash Cards: Sight Words](#)
- [The Summer Of Broken Rules](#) By K. L. Walther
- [If He Had Been With Me](#)
- [The Four Agreements: A Practical Guide To Personal Freedom \(a Toltec Wisdom Book\)](#) By Don Miguel Ruiz

- [Fourth Wing \(the Emyrean, 1\)](#)
- [The Five-star Weekend](#)