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Digital Compression for Multimedia: Principles and ...

DCT is the most widely used lossy compression method, and is used in multimedia formats for images (such as JPEG and HEIF), video (such as MPEG, AVC and HEVC) and audio (such as MP3, AAC and Vorbis). Lossy image compression is used in digital cameras, to increase storage capacities.

Data compression - Wikipedia

processing classes. A lot of image processing material beyond compression. n Fundamental books that are not image/video specific: I A. Gersho and R.M. Gray, "Vector Quantization and Signal Compression," Kluwer Academic Press, 1992. Principles and algorithms for digital source coding, with applications to images, speech, and audio.

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Image and Video Compression

Principles of Multimedia. Ranjan Parekh, Ranjan. ... algorithm allows analog animation applications audio bits block cable called camera channel character clip CODEC coding color components compression connected consists contains create curve decoder defined designed developed devices disc disk display document domain editing effects encoding ...

Principles of Multimedia - Ranjan Parekh, Ranjan - Google

...

There are a great many alternative video compression algorithms, such as wavelet, pyramid, fractal, and so on (see Chapter 7 of Digital Compression for Multimedia: Principles and Standards by Jerry D. Gibson and others). Many have special characteristics that make them suitable for very low bit rate facilities, for software decoding on a PC ...

MPEG-2 Compression > Digital Broadcast Technologies ...

Introduction to Data Compression, Second Edition Khalid Sayood
Multimedia Servers: Applications, Environments, and Design
Dinkar Sitaram and Asit Dan
Managing Gigabytes: Compressing and Indexing Documents and Images, Second Edition
Ian H. Witten, Alistair Moffat, and Timothy C. Bell
Digital Compression for Multimedia: Principles and Standards

Introduction to Data Compression, Third Edition (Morgan

...

Information theory studies the quantification, storage, and communication of information. It was originally proposed by Claude Shannon in 1948 to find fundamental limits on signal processing and communication operations such as data compression, in a landmark paper titled "A Mathematical Theory of Communication". Its impact has been crucial to the success of the Voyager missions to deep space ...

Information theory - Wikipedia

The compression and decompression techniques are being used for variety of applications like facsimile, printer, document storage and retrieval, teleconferencing, multimedia messaging systems. Compression principles try to eliminate redundancies

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(Example : In B/W picture we can use a code mechanism to store repeated white pixels and in absence ...

Multimedia Systems/Compression Techniques & its Principles ...

Abstract Multimedia data, increasing in the modern era because multimedia are the major source of information. Multimedia data required storage capacity and transmission bandwidth. These factors we need for multimedia compression technique.

Uncompressed data required more storage and transmission bandwidth on the other hand, we have limited storage capacity and transmission bandwidth. But ...

Multimedia Compression Techniques | Information technology ...

Digital Media. Digital Compression Lossless. Compression adjusts how data is stored to use fewer bytes Lossless compression keeps all the original detail (vs. "lossy") Suppose we have this series of sample numbers: 12000, 12002, 12006, 12007, 12010, 12006, 12005 The numbers are quite near to each other - typical for signals

Digital Media - Stanford University

Jerry Gibson, Toby Berger, Tom Lookabaugh, Rich Baker and David Lindbergh, "Digital Compression for Multimedia: Principles & Standards," Morgan Kaufmann, 1998. ISBN 1-55860-369-7 ISBN 1-55860-369-7 A. N. Netravali and B. G. Haskell, "Digital Pictures - Representation, Compression and Standards," 2nd ed. Plenum Press, 1995.

EEL 6935 -- Multimedia Communications and Networking

Compression algorithms are key to transfer and storage of multimedia applications, and many large networks depend on effective compressions. This text discusses the basic principles of compression, Read more...

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