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Comprehensive coverage of MPEG-2, and also includes a chapter about MPEG-4. Some sections from Netravali & Haskell's "Digital Pictures" are included to provide background. V. Bhaskaran, K. Konstantinides, "Image and Video Compression Standards," Kluwer Academic Publishers, 1995.

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Image and Video Compression

JPEG is a file format implementing compression based on the Discrete Cosine Transform DCT, together with lossless algorithms this provides good compression ratios. The way JPEG works is best suited for images with continuous tonal ranges like photographs, logos, scanned text and other images with lot's of sharp contours / lines will get more compression artifacts than photographs.

Chapter 1. Digital image representation

Digital photos are almost solely compressed using lossy technologies. The reason is that due to the nature of a photo (it includes noise, very minor changes that are hard to compress but are not important to the view and more) lossless compression technologies do not perform well on it. On the other hand Lossy compression technologies can be very effective in reducing digital photo file sizes - sometimes an order of magnitude or more.

Lossless And Lossy Digital Photo File Compression

An important development in digital image compression was the discrete cosine transform (DCT), a lossy compression technique first proposed by Nasir Ahmed in 1972. DCT compression became the basis for JPEG , which was introduced by the Joint Photographic Experts Group in 1992. [23]

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