



Image and Video Processing in the Compressed Domain

Jayanta Mukhopadhyay

Download now

[Click here](#) if your download doesn't start automatically

Image and Video Processing in the Compressed Domain

Jayanta Mukhopadhyay

Image and Video Processing in the Compressed Domain Jayanta Mukhopadhyay

As more images and videos are becoming available in compressed formats, researchers have begun designing algorithms for different image operations directly in their domains of representation, leading to faster computation and lower buffer requirements. **Image and Video Processing in the Compressed Domain** presents the fundamentals, properties, and applications of a variety of image transforms used in image and video compression. It illustrates the development of algorithms for processing images and videos in the compressed domain.

Developing concepts from first principles, the book introduces popular image and video compression algorithms, in particular JPEG, JPEG2000, MPEG-2, MPEG-4, and H.264 standards. It also explores compressed domain analysis and performance metrics for comparing algorithms. The author then elucidates the definitions and properties of the discrete Fourier transform (DFT), discrete cosine transform (DCT), integer cosine transform (ICT), and discrete wavelet transform (DWT). In the subsequent chapters, the author discusses core operations, such as image filtering, color enhancement, image resizing, and transcoding of images and videos, that are used in various image and video analysis approaches. He also focuses on other facets of compressed domain analysis, including video editing operations, video indexing, and image and video steganography and watermarking.

With MATLAB® codes on an accompanying CD-ROM, this book takes you through the steps involved in processing and analyzing compressed videos and images. It covers the algorithms, standards, and techniques used for coding images and videos in compressed formats.

 [Download Image and Video Processing in the Compressed Domai ...pdf](#)

 [Read Online Image and Video Processing in the Compressed Dom ...pdf](#)

Download and Read Free Online Image and Video Processing in the Compressed Domain Jayanta Mukhopadhyay

From reader reviews:

Megan Snyder:

Do you have favorite book? When you have, what is your favorite's book? Book is very important thing for us to find out everything in the world. Each book has different aim as well as goal; it means that book has different type. Some people feel enjoy to spend their the perfect time to read a book. They are really reading whatever they take because their hobby is reading a book. What about the person who don't like studying a book? Sometime, individual feel need book after they found difficult problem as well as exercise. Well, probably you'll have this Image and Video Processing in the Compressed Domain.

John Sledge:

Image and Video Processing in the Compressed Domain can be one of your nice books that are good idea. Many of us recommend that straight away because this reserve has good vocabulary that could increase your knowledge in vocab, easy to understand, bit entertaining but nevertheless delivering the information. The author giving his/her effort to put every word into enjoyment arrangement in writing Image and Video Processing in the Compressed Domain although doesn't forget the main stage, giving the reader the hottest as well as based confirm resource data that maybe you can be one among it. This great information can easily drawn you into fresh stage of crucial pondering.

Charles Felton:

This Image and Video Processing in the Compressed Domain is great guide for you because the content that is full of information for you who also always deal with world and still have to make decision every minute. That book reveal it data accurately using great arrange word or we can point out no rambling sentences in it. So if you are read this hurriedly you can have whole data in it. Doesn't mean it only offers you straight forward sentences but tough core information with attractive delivering sentences. Having Image and Video Processing in the Compressed Domain in your hand like obtaining the world in your arm, details in it is not ridiculous one. We can say that no reserve that offer you world within ten or fifteen minute right but this book already do that. So , this is good reading book. Heya Mr. and Mrs. active do you still doubt that?

Pamela Stanley:

In this time globalization it is important to someone to get information. The information will make someone to understand the condition of the world. The health of the world makes the information simpler to share. You can find a lot of sources to get information example: internet, newspaper, book, and soon. You will see that now, a lot of publisher that will print many kinds of book. Typically the book that recommended for your requirements is Image and Video Processing in the Compressed Domain this e-book consist a lot of the information in the condition of this world now. That book was represented just how can the world has grown up. The dialect styles that writer use for explain it is easy to understand. The writer made some investigation when he makes this book. This is why this book appropriate all of you.

**Download and Read Online Image and Video Processing in the
Compressed Domain Jayanta Mukhopadhyay #T1EZV9YMDCL**

Read Image and Video Processing in the Compressed Domain by Jayanta Mukhopadhyay for online ebook

Image and Video Processing in the Compressed Domain by Jayanta Mukhopadhyay Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Image and Video Processing in the Compressed Domain by Jayanta Mukhopadhyay books to read online.

Online Image and Video Processing in the Compressed Domain by Jayanta Mukhopadhyay ebook PDF download

Image and Video Processing in the Compressed Domain by Jayanta Mukhopadhyay Doc

Image and Video Processing in the Compressed Domain by Jayanta Mukhopadhyay Mobipocket

Image and Video Processing in the Compressed Domain by Jayanta Mukhopadhyay EPub