

Digital Video Compression (with CD-ROM)

By Peter Symes

This CD-ROM with algorithms, encoders, and practice clips is your one-stop guide to the art and science of digital video compression! Without video compression, video streaming - one of the Internet's great innovations - would be nothing more than a pipe dream. That's why if digitizing video imagery is part of your work or hobby, here's an info-packed volume you need handy at all times: McGraw-Hill's "Digital Video Compression." Written by a renowned expert in digital technology, "Digital Video Compression" offers comprehensive coverage on a vast range of digital media technologies and standards. It delivers everything you need to understand the techniques, tricks, and confusing protocols of compression, as well as: fundamentals of compression; MPEG-2 and MPEG-4 compression standards; JVT / H.264 / MPEG-4 Part 10 - learn the details of the just-released compression standard; and much more! Plus, you get an invaluable CD-ROM of compression tools, encoders, and video clips for practice. With "Digital Video Compression", you're sure to stay out in front of this exploding technology! The book covers: What Is Compression? An Introduction to Images; Entropy Coding; Protective Coding; Transforms; Quantization; JPEG; Motion Compensation; MPEG-1; MPEG-2; MPEG-4; JVT / H.264 / MPEG-4 Part 10; MPEG-7 and MPEG-21; Pro-MPEG and MPEG Operating Ranges; DV Compression; Wavelets; JPEG2000; Audio Compression; and Streaming Media.

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Digital Video Compression (with CD-ROM) Summary Details

Digital Video Compression (with CD-ROM) by By Peter Symes ebook read online.

pdetail:

- Sales Rank: #1712035 in Books
- Published on: 2003-10-02
- Original language: Spanish
- Number of items: 1
- Dimensions: 9.20" h x .83" w x 7.30" l, 1.10 pounds
- Binding: Paperback
- 400 pages

editorial:

From the Back Cover

CD-ROM WITH ALGORITHMS, ENCODERS, AND PRACTICE CLIPS

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- * Fundamentals of compression
- * MPEG-2 and MPEG-4 compression standards
- * JVT / H.264 / MPEG-4 Part 10 — learn the details of the just-released compression standard
- * And much more!

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COVERAGE INCLUDES:

- * What Is Compression?
- * An Introduction to Images
- * Entropy Coding
- * Protective Coding
- * Transforms
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- * JPEG

- * Motion Compensation
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- * Pro-MPEG and MPEG Operating Ranges
- * DV Compression
- * Wavelets
- * JPEG2000
- * Audio Compression
- * Streaming Media

About the Author

Peter D. Symes is Manager, Advanced Technology at Thomson Broadcast & Media Solutions. He is an SMPTE Fellow, a Senior Member of the IEEE, and the author of *Video Compression* and *Video Compression Demystified* (both published by McGraw-Hill). He is currently serving as Engineering Vice President for SMPTE.

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