



Lossless Compression Handbook (Communications, Networking and Multimedia)

By Khalid Sayood Ph.D.

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Lossless Compression Handbook (Communications, Networking and Multimedia) By Khalid Sayood Ph.D.

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

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- Sales Rank: #977816 in Books
- Published on: 2003-01-03
- Original language: English
- Number of items: 1
- Dimensions: 1.09" h x 7.48" w x 9.82" l,
- Binding: Hardcover
- 454 pages

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Editorial Review

Review

Never before has the topic of lossless compression been so topical. That's why the recent publication of Lossless Compression Handbook, is so timely. It explains the process of compression and transmission of multimedia signals (images, text, audio and data) so that the decompressed or reconstructed data exactly match the original. Who is this book for? Engineers, scientists and other professionals who deal with image processing, signal processing, multimedia systems and wireless technology. It's for anyone who has a problem that requires compression.

- EMedia, The Digital Studio Magazine, May 2003

This book will be of interest to every engineer or researcher who is working with coded data such as compressed images, text, or compressed data...Lossless Compression Handbook is a must read for all professionals who are working in the field of image coding such as JPEG 2000. Each chapter has numerous references that help the reader to explore more about topics of interest. Another interesting feature is that authors of individual chapters provide a note on how to go further on a particular topic at the end of the chapter. Pseudocode listing in most of the chapters enables quicker understanding and implements various algorithms discussed. Overall, this book is a wonderful introduction and a handy reference to the topic of lossless compression. I recommend this book in the library of every working individual who is working in this area of lossless compression.

- IEEE Circuits & Devices Magazine, Sept./Oct. 2004

From the Publisher

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.

From the Back Cover

All professional engineers and computer scientists dealing with compressed images, text and data for use in wireless and wired communication systems are affected by the integrity of the process by which the signals are transferred. The Lossless Compression Handbook clearly explains the process of compression and transmission of multimedia signals (images, text, audio, and data) so that the decompressed or reconstructed data exactly match the original. Since most signals are coded and compressed to be transmitted, the need for higher quality and accuracy through lossless compression is of absolute importance and priority. This book will prove invaluable to engineers dealing with image processing, signal processing, multimedia systems, wireless technology, and more.

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. The quality and clarity of audio, text and video signals used in mobile phones, computer

networks, EPS devices, and many other applications are among the highest priorities of communications companies and devices manufacturers because the users' perception of product quality relies on lossless compression. The same challenges concern the Internet, television, fax machines, digital photography, printers, and nearly every aspect of modern business and personal communications.

Users Review

From reader reviews:

Lillian Owensby:

Why don't make it to be your habit? Right now, try to prepare your time to do the important take action, like looking for your favorite guide and reading a book. Beside you can solve your trouble; you can add your knowledge by the book entitled Lossless Compression Handbook (Communications, Networking and Multimedia). Try to make the book Lossless Compression Handbook (Communications, Networking and Multimedia) as your good friend. It means that it can to become your friend when you truly feel alone and beside associated with course make you smarter than ever. Yeah, it is very fortunated in your case. The book makes you far more confidence because you can know almost everything by the book. So , we should make new experience as well as knowledge with this book.

Gertrude Barrett:

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Arlie Carrillo:

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Lillian Trimmer:

What is your hobby? Have you heard that will question when you got college students? We believe that that question was given by teacher on their students. Many kinds of hobby, All people has different hobby. And you know that little person like reading or as reading through become their hobby. You need to understand

that reading is very important and also book as to be the thing. Book is important thing to include you knowledge, except your own personal teacher or lecturer. You will find good news or update in relation to something by book. Amount types of books that can you choose to adopt be your object. One of them is actually Lossless Compression Handbook (Communications, Networking and Multimedia).

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