



Introduction to Data Compression, Fourth Edition (The Morgan Kaufmann Series in Multimedia Information and Systems)

By Khalid Sayood Ph.D.

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Introduction to Data Compression, Fourth Edition, is a concise and comprehensive guide to the art and science of data compression. This new edition includes all the cutting edge updates the reader will need during the work day and in class. It provides an extensive introduction to the theory underlying today's compression techniques with detailed instruction for their applications using several examples to explain the concepts.

Encompassing the entire field of data compression, this book covers lossless and lossy compression, Huffman coding, arithmetic coding, dictionary techniques, context based compression, scalar and vector quantization. New to this fourth edition is a more detailed description of the JPEG 2000 standard as well as speech coding for internet applications. A source code is also provided via a companion web site that gives readers the opportunity to build their own algorithms, choose and implement techniques in their own applications.

This text will appeal to professionals, software and hardware engineers, students, and anyone interested in digital libraries and multimedia.

- New content added to include a more detailed description of the JPEG 2000 standard
- New content includes speech coding for internet applications
- Explains established and emerging standards in depth including JPEG 2000, JPEG-LS, MPEG-2, H.264, JBIG 2, ADPCM, LPC, CELP, MELP, and iLBC
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Editorial Review

Review

This text is a truly introductory treatment of the entire field of data compression, including lossless coding, speech coding, and audio coding, which are often neglected in other data compression books. Sayood's book has the very best tutorial treatment of lossless source coding anywhere, with detailed coverage of Lempel-Ziv, arithmetic, Golomb, and Tunstall coding, in addition to treatments of fixed and adaptive Huffman coding and context-based methods. Additionally, the book contains material on M-band quadrature mirror filter banks, the polyphase decomposition, and wavelets beyond what is normally found in any introductory text. I have used Sayood's book for a reference and as a text for a course on signal compression. I highly recommend it for adoption. --**Jerry D. Gibson, Professor of Electrical and Computer Engineering, University of California, Santa Barbara**

Khalid Sayood's book has long been the standard academic reference for those interested in Data Compression. I am very pleased to see his ongoing effort to keep the content timely with the release of the fourth edition this fall. If you want to be well versed in state of the art, ranging from simple lossless coding up to complex video compression, this is the only book I know that will stay with you on every step of the journey. --**Mark Nelson, Engineer at Cisco Systems, Inc and Senior Member of IEEE**

About the Author

Khalid Sayood received his BS and MS in Electrical Engineering from the University of Rochester in 1977 and 1979, respectively, and his Ph.D. in Electrical Engineering from Texas A&M University in 1982. In 1982, he joined the University of Nebraska, where he is the Heins Professor of Engineering. His research interests include data compression, joint source channel coding, and bioinformatics.

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