EECS 651 Source Coding Theory
Winter 2001

Library Reserve List

Requests will be made for the following books to be placed on reserve in the Media Union Library.
The books in **bold** are likely to be the most helpful references.
The other books will be put on reserve mainly so they will be available when doing projects.
Unfortunately, none of these books has an adequate coverage of the high-resolution theory that will be the basis of the course, which is why there is no required text.

B. Atal, V. Cuperman and Gersho, *Advances in Speech Coding*

B. Atal, V. Cuperman and Gersho, Speech and Audio Coding for Wireless and Network Applications

T. Barnwell, K. Nayebi, C. Richardson, *Speech Coding: A Computing Laboratory Textbook*

T. Bell, J. Cleary & I. Witten, *Text Compression*

T. Berger, *Rate distortion theory: A mathematical basis for data compression*

V. Bhaskaran and K. Konstantinides, *Image and Video Compression Standards: Algorithms and Architecures*

J. Deller, J. Proakis and J. Hansen, *Discrete-Time Processing of Speech Signals*

A. Gersho & R. Gray, *Vector Quantization and Signal Compression*

J. Gibson, T. Berger, T. Lookabaugh, D. Lindbergh, and R. L. Baker, *Digital Compression for Multimedia*

R. Gray, *Source Coding Theory*

B. Haskell, A. Puri and A. Netravali, *Digital Video: An Introduction to MPEG-3*

A. Jain, *Fundamentals of Digital Image Processing*

N. Jayant & P. Noll, *Digital coding of waveforms: Principles and applications to speech and video*.

W. Kou, *Digital Image Compression: Algorithms and Standards*

M. Nelson, *The Data Compression Book*

A. Netravali and B. Haskell, *Digital Pictures: Representation and Compression*

D. O'Shaughnessy, *Speech Communication: Human and Machine*

P. Papamichalis, *Practical Approaches to Speech Coding*

T. Parsons, *Voice and speech procesing*

M. Rabbani and P. Jones, *Digital Image Compression Techniques*

L. Rabiner and R. Schafer, *Digital Processing of Speech Signals*

K. Rao and J.J. Hwang, *Techniques and Standards for Image, Video, and Audio Coding*

K. Sayood, *Introduction to Data Compression*