

## Exercise Problems: Information Theory and Coding

*Prerequisite courses: Mathematical Methods for CS; Probability*

**Overview and Historical Origins: Foundations and Uncertainty.** Why the movements and transformations of information, just like those of a fluid, are law-governed. How concepts of randomness, redundancy, compressibility, noise, bandwidth, and uncertainty are intricately connected to information. Origins of these ideas and the various forms that they take.

**Mathematical Foundations; Probability Rules; Bayes' Theorem.** The meanings of probability. Ensembles, random variables, marginal and conditional probabilities. How the formal concepts of information are grounded in the principles and rules of probability.

**Entropies Defined, and Why They Are Measures of Information.** Marginal entropy, joint entropy, conditional entropy, and the Chain Rule for entropy. Mutual information between ensembles of random variables. Why entropy is a fundamental measure of information content.

**Source Coding Theorem; Prefix, Variable-, & Fixed-Length Codes.** Symbol codes. Binary symmetric channel. Capacity of a noiseless discrete channel. Error correcting codes.

**Channel Types, Properties, Noise, and Channel Capacity.** Perfect communication through a noisy channel. Capacity of a discrete channel as the maximum of its mutual information over all possible input distributions.

**Continuous Information; Density; Noisy Channel Coding Theorem.** Extensions of the discrete entropies and measures to the continuous case. Signal-to-noise ratio; power spectral density. Gaussian channels. Relative significance of bandwidth and noise limitations. The Shannon rate limit and efficiency for noisy continuous channels.

**Fourier Series, Convergence, Orthogonal Representation.** Generalized signal expansions in vector spaces. Independence. Representation of continuous or discrete data by complex exponentials. The Fourier basis. Fourier series for periodic functions. Examples.

**Useful Fourier Theorems; Transform Pairs. Sampling; Aliasing.** The Fourier transform for non-periodic functions. Properties of the transform, and examples. Nyquist's Sampling Theorem derived, and the cause (and removal) of aliasing.

**Discrete Fourier Transform. Fast Fourier Transform Algorithms.** Efficient algorithms for computing Fourier transforms of discrete data. Computational complexity. Filters, correlation, modulation, demodulation, coherence.

**The Quantized Degrees-of-Freedom in a Continuous Signal.** Why a continuous signal of finite bandwidth and duration has a fixed number of degrees-of-freedom. Diverse illustrations of the principle that information, even in such a signal, comes in quantized, countable, packets.

**Gabor-Heisenberg-Weyl Uncertainty Relation. Optimal "Logons."** Unification of the time-domain and the frequency-domain as endpoints of a continuous deformation. The Uncertainty Principle and its optimal solution by Gabor's expansion basis of "logons." Multi-resolution wavelet codes. Extension to images, for analysis and compression.

**Kolmogorov Complexity and Minimal Description Length.** Definition of the algorithmic complexity of a data sequence, and its relation to the entropy of the distribution from which the data was drawn. Shortest possible description length, and fractals.

Recommended book:

Cover, T.M. & Thomas, J.A. (1991). *Elements of Information Theory*. New York: Wiley.

# Exercise Problems Information Theory And Coding

**L Cohen**



## **Exercise Problems Information Theory And Coding:**

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