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2017-06-28 Lecture 1:

Introduction to Information Theory

Understanding vision book: Chap

3, Efficient Coding, 5: Information

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efficiency

Information Theory part 3: What is
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Information Theory, Coding and
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theory for application in the field
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History of coding theory. In 1948, Claude Shannon published "A Mathematical Theory of Communication", an article in two parts in the July and October issues of the Bell System

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Technical Journal. This work focuses on the problem of how best to encode the information a sender wants to transmit. In this fundamental work he used tools in probability theory, developed by Norbert Wiener, which were ...

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~~Coding theory — Wikipedia~~

Coding theory is one of the most important and direct applications of information theory. It can be subdivided into source coding theory and channel coding theory. Using a statistical description for data, information theory quantifies

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the number of bits needed to describe the data, which is the information entropy of the source.

~~Information theory – Wikipedia~~
Information Theory & Coding –
EEE2004 – SLG – School of EECE
- Spring 2012 Lossless

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compression techniques
Compression algorithms allowing
the exact original data to be
reconstructed from the
compressed data. Used in software
compression tools such as the
popular ZIP file format. Used when
the original and the decompressed

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~~Information Theory - Part 1~~

Most of Information Theory involves probability distributions of random variables, and joint or conditional probabilities defined over ensembles of random

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variables. Indeed, the information content of a symbol or event is defined by its (im)probability.

~~Information Theory and Coding—
University of Cambridge~~

Discrete mathematics, information theory and coding; Applied

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Combinatorics on Words. \$174.95

(C) Part of Encyclopedia of
Mathematics and its Applications.

Author: M. Lothaire;

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Theory for Engineers-Richard B. Wells 1999 This book provides a practical introduction to the theory and practice of coding and information theory for application in the field of electronic communications. It is written at an introductory level and assumes no

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Information theory, coding and
cryptography are the three

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load bearing pillars of any digital communication system. In this introductory course, we will start with the basics of information theory and source coding.

Subsequently, we will discuss the theory of linear block codes (including cyclic codes,

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AND ELECTRICAL
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Information theory is the basis of modern telecommunication systems. Main topics of information theory are source

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coding, channel coding, multi-user communication systems, and cryptology. These topics are based on Shannons work on information theory, which allows to describe information with measures like entropy and redundancy.

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Universität Ulm~~

The study of error-control codes is called coding theory. This area of discrete applied mathematics includes the study and discovery of various coding schemes that are

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used to increase the number of errors that can be corrected during data transmission. Coding theory emerged following the publi-

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This book is devoted to the theory

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of probabilistic information measures and their application to coding theorems for information sources and noisy channels. The eventual goal is a general development of Shannon ' s mathematical theory of communication, but much of the

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space is devoted to the tools and
methods

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