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History of coding theory. In 1948, Claude Shannon published "A Mathematical Theory of Communication", an article in two

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

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~~Information theory – Wikipedia~~
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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 data

~~Information Theory – Part 1~~
Most of Information Theory
involves probability distributions
of ran- dom variables, and
conjoint or conditional
probabilities defined over
ensembles of random variables.
Indeed, the information content of

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a symbol or event is defined by
its (im)probability.

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

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

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

~~Applied Information Theory— Universität Ulm~~

The study of error-control codes is

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studies cryptography from the information-theoretical perspectives and discuss the concepts such as ...

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This book is devoted to the theory 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 space is devoted to the tools and methods

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