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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 Technical Journal. This work focuses on the problem of how best to

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encode the information a sender wants to transmit. In this fundamental work he used tools in probability theory, developed by Norbert Wiener, which were ...

~~Coding theory - Wikipedia~~

Coding theory is one of the most important and direct applications of information

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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 & Coding – EEE2004

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Lossless 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

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## ~~Information Theory – Part 1~~

Most of Information Theory involves probability distributions of random variables, and conjoint or conditional probabilities defined over ensembles of random variables. Indeed, the information



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

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## ~~INFORMATION THEORY, CODING AND ELECTRICAL ENGINEERING ...~~

Information theory is the basis of modern telecommunication systems. Main topics of information theory are source coding, channel coding, multi-user communication

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For Engineers 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  
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The study of error-control codes is called

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coding theory. This area of discrete applied mathematics includes the study and discovery of various coding schemes that are used to increase the number of errors that can be corrected during data transmission. Coding theory emerged following the publi-

~~Introduction to Algebraic Coding Theory~~



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This book is devoted to the theory of probabilistic information measures and their application to coding theorems for

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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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