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Lecture 1: Introduction to Information Theory

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mathematical theory of communication defines fundamental limits on how much information can be transmitted between the different components of any

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Originally developed by Claude Shannon in the 1940s, information theory laid the foundations for the digital revolution, and is now an essential tool in telecommunications, genetics, linguistics, brain sciences, and deep space communication. In this richly illustrated book, accessible examples are used to introduce information theory in terms of everyday games like '20 questions' before more advanced topics are explored.

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Abstract: Shannon's mathematical theory of communication defines fundamental limits on how much information can be transmitted between the different components of any man-made or biological system. This paper is an informal but rigorous introduction to the main ideas implicit in Shannon's theory. An annotated reading list is provided for further reading.

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Information Theory: A Tutorial Introduction James V Stone, Psychology Department, University of She eld, England. j.v.stone@she eld.ac.uk File: main InformationTheory JVStone v4.tex Abstract Shannon's mathematical theory of communication defines fundamental limits on how much information can be transmitted between the different components of any

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performance given by the theory. Information theory was born in a surpris-ingly rich state in the classic papers of Claude E. Shannon [131] [132] which contained the basic results for simple memoryless sources and channels and in-troduced more general communication systems models, including nite state sources and channels.

Entropy and Information Theory - Stanford EE

Information theory studies the quantification, storage, and communication of information. It was originally proposed by Claude Shannon in 1948 to find fundamental limits on signal processing and communication operations such as data compression, in a landmark paper titled "A Mathematical Theory of Communication". Its impact has been crucial to the success of the Voyager missions to deep space, the invention of the compact disc, the feasibility of mobile phones, the development of the Internet, t

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Concepts of Information Theory: Communication processes, A model of communication system, A quantitative measure of information, Binary unit of information, A measure of uncertainty, H function as a measure of uncertainty, Sources and binary sources, Measure of information for two-dimensional discrete finite probability schemes.

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Information theory is a field of study concerned with quantifying information for communication. It is a subfield of mathematics and is concerned with topics like data compression and the limits of signal processing. The field was proposed and developed by Claude Shannon while working at the US telephone company Bell Labs.

A Gentle Introduction to Information Entropy

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