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Information Theory: A Tutorial Introduction James V Stone, Psychology Department, University of Sheffield, England. j.v.stone@sheffield.ac.uk File: main InformationTheory JVStone v3.tex Abstract Shannon's mathematical theory of communication defines fundamental limits on how much information can be transmitted between the different components of any

Information Theory: A Tutorial Introduction

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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
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tool in telecommunications, genetics, linguistics, brain sciences, and deep space communication.

Information Theory A Tutorial Introduction O Information ... 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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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.

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