

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.

1 Introduction

In 1948, Claude Shannon published a paper called *A Mathematical Theory of Communication*[1]. This paper heralded a transformation in our understanding of information. Before Shannon's paper, information had been viewed as a kind of poorly defined miasmic fluid. But after Shannon's paper, it became apparent that information is a well-defined and, above all, *measurable* quantity. Indeed, as noted by Shannon,

A basic idea in information theory is that information can be treated very much like a physical quantity, such as mass or energy.

Claude Shannon, 1985.

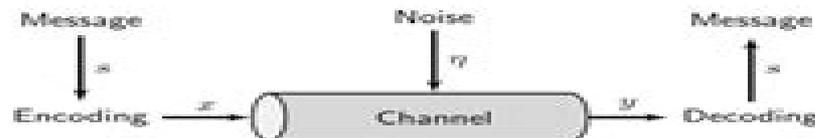


Figure 1: The communication channel. A message (data) is encoded before being used as input to a communication channel, which adds noise. The channel output is decoded by a receiver to recover the message.

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