

# SHANNON MATHEMATICAL THEORY OF COMMUNICATION

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**Abstract**—Claude Elwood Shannon is the father of the mathematical theory of communication, which provides insight and mathematical formulations that are now the basis for modern communication technology. The major contribution to communication model came from his monumental paper published 1948, "A Mathematical Theory of Communication". In this paper, we look at Shannon life and also his work regarding to mathematical theory of communication.

**Keywords:** Shannon, Communication, Communication Theory, Mathematical Theory of Communication.

## I. INTRODUCTION

Claude Elwood Shannon was born in Gaylord Michigan on April 30, 1916 to Claude Elwood and Mabel Wolfson, in America. Shannon is considered as the father of electronic communications age due to his research paper, "A mathematical of Communication" which indicated that information could be defined and measured as a scientific notion [1].

In his early age, Shannon spent his life in Gaylord, where he attended public schools, and in 1932, he graduated from Gaylord High School. Shannon later joined University of Michigan, where he was awarded with degree in mathematics and electric engineering in 1936. Shannon was not much outstanding in the field of mathematics but he join the Massachusetts Institute of technology (MIT), where he obtained Master's Degree in electrical engineering, where his masters thesis was "A Symbolic Analysis of Relay and Switching Circuits" on the use of boolean algebra to analyse and optimise relay switching circuits, and his Ph.D in mathematics in 1940, where his doctorate thesis was on population genetics [2]. Later in 1942, he joined the staff of Bell Telephone Laboratories, where he formulated a theory explaining the communication of information and worked on the problem of most efficient transmitting information [3].

## II. SHANNON'S MATHEMATICAL THEORY

In 1941, Shannon published *Mathematical theory of the differential analyzer*. In his introduction part, he writes:

*The most important results [mostly given in the form of theorems with proofs] deal with conditions under which functions of one or more variables can be generated, and conditions under which ordinary differential equations can be solved. Some attention is given to approximation of functions (which cannot be generated exactly), approximation of gear ratios and automatic speed control, [4].*

In 1948, Shannon published the paper, *A Mathematical Theory of Communication*, in Bell System Technical Journal. Its from this paper where he founded the subject of information theory and he then proposed the linear schematic model of communication [1]. From this paper, communication was thought as requiring electromagnetic waves to be sent down a wire, where information data such as pictures, words, audio and videos could be transmitted by sending a stream of 1s and 0s down a wire.

### A. Communication Problem and Logarithmic Function

The main problem with communication is being in a position to reproduce exactly what was being transmitted or approximately the source message. The significance of actual message is one selected from a set of possible messages, and thus the system must be designed so as to operate for each possible message selection, but not just the one which will be chosen since this is unknown at design time. If the number of messages in the set are finite, the this finite number or a function of it can be regarded "as a measure of the information produced when one message is chosen from the set, all choices being equally likely [2].

Hartley pointed out that the best choice to use is the logarithmic function which is convenient because of. First, the logarithmic function is practically more useful since

# A Mathematical Theory Of Communication

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## **A Mathematical Theory Of Communication:**

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