

Code

Overview of various encoding techniques, focusing on transforming information into symbolic representations like Morse code, fixed-length, and variable-length codes. It also discusses the principles of encoding systems used in technology and communication.

Shannon-Fano method

The Shannon-Fano method is a basic data compression technique where symbols are arranged by their probability of occurrence. The goal is to assign shorter codes to more frequent symbols, optimizing data encoding efficiency

Encoding integers

Explains various methods for encoding integers, focusing on binary representation and how to handle both positive and negative numbers using sign-magnitude and two's complement methods. It includes practical examples, such as converting between decimal and binary systems and performing arithmetic with binary numbers.

BCD encoding

Fixed-Point Number Representation

Floating-Point representation

Parity Check

Error detection and correction

Reed-Solomon codes

Huffman codes

RLE coding

LZW coding

Multimedia compression

Jpeg compression

Mpeg compression

Character encoding

UTF-8 encoding

Base64 coding

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