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Intro

The Communication Industry

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Information Theory

Architecture

Source Coding

Layering

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Channel

Fixed Channels

Binary Sequences

White Gaussian Noise

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Contents

What is Digital Communication

What are the Examples

Digital communication system -Block Diagram

Input source

Input Transducer

Source Encoder

Channel Encoder

Source Decoder & Output transducer

Disadvantages of Digital communication system

References

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Layering

Examples of Analog Sources

Discrete Source Coding

The Fixed Length Approach

Ascii Code

Fixed Length Codes

Segment the Source Sequence

Variable Length Codes

Example of a Variable Length Code

Unique Decodability

Prefix-Free Codes

Binary Tree

So Let's Look at this Code We Were Just Talking about Where the Code Words Are Bc and a So if a 1 Comes out of the Source and Then another One It Corresponds to the First Letter B if a 1 0 Comes Out It Corresponds to the First Letter C if a 0 Comes Out a Corresponds to the Letter a Well Now the Second Symbol Comes in and What Happens on that Second Symbol Is if the First Symbol Was an a the Second Symbol Could Be Ab or Ac or an a Which Gives Rise to this Little Subtree Here if the First Letter Is Ab

Because We Want To Have some Capability of Mapping Improbable Symbols into Long Code Words and Probable Symbols into Short Code Words and You'LI Notice that I've Done Something Strange Here That Was Our Motivation for Looking at Variable Length Codes but I Haven't Said a Thing about Probability Well I'M Dealing with Now Is the Question of What Is Possible and What Is Not Possible and We'LI Bring In Probability Later but Now all We'Re Trying To Figure Out Is What Are the Sets of

Code Word Lengths You Can Use and What Are the Sets of Code Word Lengths You Can Use
You Take the Length of each of those Code Words You Take 2 to the Minus L of that Length and if this Inequality Is Not Satisfied Your Code Does Not Satisfy the Prefix Condition There's no Way You Can Create a Prefix-Free Code Which Has these Lengths so You're out of Luck so You Better Create a New Set of Lengths Which Satisfies this Inequality and There's Also a Simple Procedure You Can Go through Which Lets You Construct the Code Which Has these Lengths So in Other Words this in a Sense Is a Necessary and Sufficient Condition

And There's Also a Simple Procedure You Can Go through Which Lets You Construct the Code Which Has these Lengths So in Other Words this in a Sense Is a Necessary and Sufficient Condition 1 on the Possibility of Constructing Codes with a Particular Set of Lengths Has Nothing To Do with Probability so It's so It's in a Sense Cleaner than these Other Results and So Conversely if this Inequality Is Satisfied You Can Construct a Prefix-Free Code and Even More Strangely You Can Construct It Very Very Easily as We'll See and Finally a Prefix-Free Code Is Full Remember What a Full Prefix-Free And So Conversely if this Inequality Is Satisfied You Can Construct a Prefix-Free Code and Even More Strangely You Can Construct It Very Very Easily as We'll See and Finally a Prefix-Free Code Is Full Remember What a Full Prefix-Free Code Is It's a Code Where the Tree Has Has Nothing That's Unused if and Only if this Inequality Is Satisfied with Equality so It's a Neat Result and It's Useful in a Lot of Places Other than Source Coding if You Ever Get Involved with Designing Protocols

If I Have a Code Consisting of 0 0 0 1 and 1 What I'm Going To Do Is Represent 0 0 as a Binary Expansion So 0 0 Is a Binary Expansion Is Point 0 0 Which Is 0 but Also as an Approximation It's between Zero and $1/4$ So I Have this Interval Associated with 0 0 Which Is the Interval from 0 up to $1/4$ for the Code Words 0 1 I'm Trying To See whether that Is Part of a Prefix Code I Have Then I Map It into a Number Point 0 1 as a Binary Expansion

You Then Learn How Will Encode the Screen Memoryless Sources You Then Look at Blocks of Letters out of these Sources and if They're Not Independent You Look at the Probabilities of these Blocks and if You Know How To Generate an Optimal Code for iid Letters Then all You Have To Do Is Take these Blocks of Length M Where You Have a Probability on each Possible Block and You Generate a Code for the Block and You Don't Worry about the Statistical Relationships between Different Blocks You Just Say Well if I Make My Block Long Enough I Don't Care about What Happens at the Edges
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