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INFORMATION THEORY

- Robert G Gallager, Information Theory and Reliable Communication - Robert M Fano Transmission of Information: A Statistical Theory of Communications - Andrew J Viterbi, Jim K Omura Principles of Digital Communication and Coding - Robert Ash, Information Theory - John Pierce, An Introduction to Information Theory

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Information Theory, Part I.

Information Theory, Part I John MacLaren Walsh, PhD ECET 602, Spring Quarter, 2015 1 References Elements of Information Theory, 2nd ed, T M Cover and J A

Appendix B Information theory from first principles

522 Appendix B Information theory from first principles ie, the uncertainty in x subtracting the reduction in uncertainty in x by observing y The entropy $H(x)$ is equal to $-\log_2 \sum_{i=1}^N P_i$, where R is the data rate For reliable communication, $H(x|y) \approx 0$, which implies $R \approx 1/N \log_2 N$ (B20) Intuitively: for reliable communication, the rate of flow of

EE376A Information Theory

Information Theory Lecture 9: Polar Codes Mert Pilanci Stanford University February 5, 2019 Outline I Channel coding and capacity I Polar code construction I Channel capacity C is the maximal rate of reliable communication over memoryless channel characterized by $P(Y|X)$ I Theorem: $C = \max_{P(X)} I(X;Y)$

A primer on information theory and MMSE estimation

A primer on information theory and MMSE estimation Theory is the first term in the Taylor series expansion of practice Thomas Cover 11 Introduction Information theory deals broadly with the science of information, including compressibility and storage of data, as well as reliable communication It is an exceptional discipline in

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The eventual goal is a general development of Shannon's mathematical theory of communication, but much of the space is devoted to the tools and methods required to prove the Shannon coding theorems These tools form an area common to ergodic theory and ...

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Information theory, but also have applications in network coding theory, probability theory, group theory, Kolmogorov complexity, and possibly physics This book is an up-to-date treatment of information theory for discrete random variables, which forms the foundation of the theory at large There are eight

Information Theory

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Introduction - Michigan State University

Claude Shannon's 1948 paper "A Mathematical Theory of Communication" gave birth to the twin disciplines of information theory and coding theory The basic goal is efficient and reliable communication in an uncooperative (and possibly hostile) environment To be efficient ...

Information Theory of DNA Sequencing - arXiv

Communication is an age-old field and in its early days, communication system designs were ad hoc and tailored for specific sources and specific channels In 1948, Claude Shannon changed all this by introducing information theory as a unified framework to study communication problems [21] He made several key contributions

1 Wireless Access for Ultra-Reliable Low-Latency ...

they can use mission-critical ultra-reliable links to work in concert towards accomplishing a production task In this paper, we first describe the principles for achieving wireless URLLC, relating them to the traditional assumptions in information and communication theory and elaborating why a new view is required We then describe

Reliable Communication Under Channel Uncertainty ...

2148 IEEE TRANSACTIONS ON INFORMATION THEORY, VOL 44, NO 6, OCTOBER 1998 Reliable Communication Under Channel Uncertainty Amos Lapidot, Member, IEEE, and Prakash Narayan, Senior Member, IEEE

Lecture 15: Hamming codes and Viterbi algorithm

Dr Yao Xie, ECE587, Information Theory, Duke University Why reliable communication is possible? After shuffling a deck of cards, dealer hands player-A 5 cards player-A randomly picks 1 card, and gives the other 4 cards to player-B is it possible for player-A to hint to player-B which cards has been kept,

Applications of Error-Control Coding - Information Theory ...

achieve reliable communication For example, a QPSK system of applications of error-control coding to space and satellite communication systems The deep-space channel turned out to be the perfect link on Applications of Error-Control Coding - Information Theory, IEEE Transactions on

Feedback and Side-Information in Information Theory

We want to engineer reliable and robust communication systems that appropriately share limited communication resources to deliver high performance at reasonable cost What is the role of information theory? Determine fundamental limits to performance Develop metrics that reflect the goals