

Information Theory And Reliable Communication

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Information theory and inference, taught together in this exciting textbook, lie at the heart of many important areas of modern technology - communication, signal processing, data mining, machine learning, pattern recognition, computational neuroscience, bioinformatics and cryptography. The book introduces theory in tandem with applications.

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Information Theory and Reliable Communication Chapter 1. COMMUNICATION SYSTEMS AND INFORMATION THEORY. 1.1 Introduction. Communication theory deals primarily with systems for transmitting information or data from one point to another. A rather general block diagram for visualizing the behavior of such systems is given in Figure 1.1.1.

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G. Gallager, Information Theory and Reliable Communication – Robert M. Fano. Transmission of Information: A Statistical Theory of Communications. – Andrew J. Viterbi, Jim K. Omura.

INFORMATION THEORY

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Information theory - Wikipedia

Aside from the intense mathematical rigour devoted by Gallager to this textbook, which blows away Cover and Thomas' "Elements of Information Theory"... the primary difference between the two books is that the focus here is on channel code design, whereas Cover and Thomas focus more on source coding because that is their field of expertise.

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R. Gallager, "A Simple Derivation of the Coding Theorem and Some Applications," IEEE Trans. on Inform. Theory, Jan. 1965 In addition some concepts found in R. Gallager, Information Theory and Reliable Communication, Wiley 1968 Mikael Skoglund, Information Theory 1/29

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Information theory is at work all around us, every day, and in all our communications. Information Theory and Reliable Communication delves into the mathematical models of sources and channels in communication systems and then explores the framework for constructing highly-detailed models of real-world sources and channels.

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His book, Information Theory and Reliable Communication (New York: Wiley 1968), placed Information Theory on a firm foundation. His joint papers in 1993 with Parekh, "A Generalized Processor Sharing Approach to Flow Control in ISN," won the 1993 William Bennett Prize Paper Award and the 1993 Infocomm Prize Paper Award.

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