

Elements Of Information Theory Solution Manual

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Solution: Conditional mutual information vs. unconditional mutual information. (a) The last corollary to Theorem 2.8.1 in the text states that if $X \rightarrow Y \rightarrow Z$ that is, if $p(x,y | z) = p(x | z)p(y | z)$ then, $I(X;Y) \geq I(X;Y | Z)$.

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Solution: Entropy of functions of a random variable. (a) $H(X;g(X)) = H(X)+H(g(X)|X)$ by the chain rule for entropies. (b) $H(g(X)|X) = 0$ since for any particular value of X , $g(X)$ is xed, and hence

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entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing.

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15 Network Information Theory 331 16 Information Theory and Portfolio Theory 377 17 Inequalities in Information Theory 391 3 4 CONTENTS Preface Here we have the solutions to all the problems in the second edition of Elements of Information Theory. First a word about how the problems and solutions were generated.

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Elements of Information Theory (PDF) 2nd Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in detail, including entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing.

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Preface The problems in the book, "Elements of Information Theory, Second Edition", were chosen from the problems used during the course at Stanford. Most of the solutions here were prepared by the graders and instructors of the course. We would particularly like to thank Prof. John Gill, David Evans, Jim Roche, Laura Ekroot and Young Han Kim for their help in preparing these solutions.

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R. Gallager, 'Information Theory and Reliable Communication', (1968) N. Abramson, 'Information Theory and Coding' (1963) C. Shannon, 'A mathematical theory of communication', Bell Sys. Tech. Journal, vol 27, p 379-423, 623-656, (1949) Useful books on Probability Theory for reference

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The initial questions treated by information theory lay in the areas of data compression and transmission. The answers are quantities such as entropy and mutual information, which are functions of the probability distributions that underlie the process of communication.

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