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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 fixed, and hence

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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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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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Relative entropy has become quite topical the past ten years because it can be used as a tool to determine the absolute continuity of probability measures. Elements of Information Theory by Cover and Thomas provides some standard proofs in the discrete case, for example for the convexity of relative entropy.

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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.

Elements of Information Theory ()

$x,y. p(x,y)\log_2p(x,y) = -(1-\phi)\log(0.5(1-\phi))-\phi\log(0.5\phi) = (1-\phi)-(1-\phi)\log(1-\phi)+\phi-\phi\log(\phi) = 1-\phi\log(\phi)-(1-\phi)\log(1-\phi)$ 4. The mutual information is $I(X;Y) = H(X) + H(Y) - H(X,Y)$, which we can evalu- ate from the quantities above as: $1+\phi\log(\phi)+(1-\phi)\log(1-\phi)$. 5.

Exercise Problems: Information Theory and Coding

Information Theory was not just a product of the work of Claude Shannon. It was the result of crucial contributions made by many distinct individuals, from a variety of backgrounds, who took his ideas and expanded upon them. Indeed the diversity and directions of their perspectives and interests shaped the direction of Information Theory.

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