

## Elements Of Information Theory Solution Manual Second Edition

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### Elements Of Information Theory Solution

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 fixed, and hence

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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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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.

### Solution-to-Information-Theory\_2nd edition - Elements of ...

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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