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Introduction to Algorithmic Information Theory, Belief Propagation, Graph Signal Processing, and Deep Reinforcement Learning

Information Information Theory

Compression (Entropy):

$$H(X) = -\sum_x p(x) \log_2 p(x)$$

Capacity:

$$SIR = I(X;Y) = H(X) - H(X|Y)$$

Bayesian Statistics

Belief Propagation: We can use Belief propagation to calculate the channel Capacity of some Markov chain...and so on