Mutual Informations I(X, Y).

T(x;y) = H(x) - H(x|y)

Muhuel Information represents the uncertainty about the channel input that is resolved by observing the channel output.

properties.

1. I(x, y) = I(y, x)

2. I(X; Y) > 0

3. J(X;Y) = H(Y) - H(Y|X)

 $4 \cdot J(x,y) = H(x) + H(y) - H(x,y).$