



Why

What is the differential mutual information between two components of a multivariate normal.

Result

Prop. 1. *Let $g \sim \mathcal{N}(\mu, \Sigma)$. Then the mutual information between component i and component j is*

$$-\frac{1}{2} \ln(1 - \rho_{ij}^2)$$

where ρ_{ij} is the correlation between components i and j .

