

DIFFERENTIAL CROSS ENTROPY

Definition

The differential cross entropy of a second density with respect to a a first density is the integral of the second density against the negative log of the first density. Let R denote the set of real numbers. Let $f: R^n \to R$ and $g: R^n \to R$ be probability density functions. The differential cross entropy of f relative to g

$$-\int g \log f$$

We denote the differential cross entropy of f relative to g by h(g, f).

