

Statistical indicator

Definition

Root mean square error (RMSE)

$$\sqrt{\frac{1}{n} \sum_{i=1}^n (c_i - o_i)^2}$$

Correlation (Corr)

$$\frac{\sum_{i=1}^n (c_i - \bar{c})(o_i - \bar{o})}{\sqrt{\sum_{i=1}^n (c_i - \bar{c})^2} \sqrt{\sum_{i=1}^n (o_i - \bar{o})^2}}$$

Mean fractional bias (MFB)

$$\frac{1}{n} \sum_{i=1}^n \frac{c_i - o_i}{(c_i + o_i)/2}$$

Mean fractional error (MFE)

$$\frac{1}{n} \sum_{i=1}^n \frac{|c_i - o_i|}{(c_i + o_i)/2}$$

Mean bias (MB)

$$\frac{1}{n} \sum_{i=1}^n c_i - o_i$$

Gross error (GE)

$$\frac{1}{n} \sum_{i=1}^n |c_i - o_i|$$