

Evaluation Metrics

- Mean absolute error: $MAE = \frac{1}{n} \sum_{i=1}^n |A_i - P_i|$
- Pearson correlation coefficient: $r = \frac{1}{n-1} \sum_{i=1}^n \left(\frac{A_i - \bar{A}}{\sigma_A} \right) \left(\frac{P_i - \bar{P}}{\sigma_P} \right)$

where A_i denotes the human-annotated ratings, P_i denotes the machine-predicted ratings, n is the number of test samples, \bar{A} and \bar{P} respectively denote the arithmetic mean of A and P , and σ is the standard deviation.