

Norman's

$$I = \frac{N}{\sum_{i,j=1}^N w_{ij}} * \frac{\sum_{i=1}^N \sum_{j=1}^N w_{ij} (x_i - \bar{x})(x_j - \bar{x})}{\sum_{i=1}^N (x_i - \bar{x})^2}$$

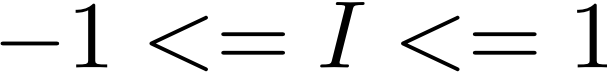


Distance weights

Deviations of Observations



Parameters	Observations	Predictions	Residuals
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20



Moran's I

Deviations of Observations

$$I = \frac{N}{\sum_{i,j=1}^N w_{ij}} * \frac{\sum_{i=1}^N \sum_{j=1}^N w_{ij} (x_i - \bar{x})(x_j - \bar{x})}{\sum_{i=1}^N (x_i - \bar{x})^2}$$

Distance weights

$$-1 \leq I \leq 1$$

Distance Bins

- Correlation of observations is estimated within defined 'bins' of distances (also called 'lags').
- Probability is ascertained via permutation.
- By default, Moran's I is based upon a Moore Neighborhood