

Nearest Neighbour Based Point Pattern

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Mean Nearest Neighbour distance

$$\bar{d}_{obs} = \frac{\sum_{i=1}^n d_{min}(s_i)}{n}$$

Where n number of events. Can be compared to expect mean NN distance under complete spatial randomness (CSR)

$$d_{exp} = 0.5 / \sqrt{n / Area}$$