Assignment parajected water Help Quantitative Methods II

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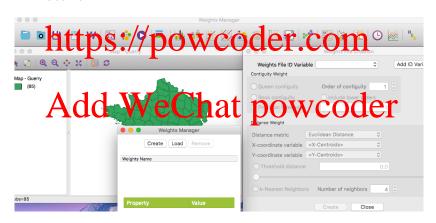
- Single value calculated across all spatial units numbers: //powcoder.com
 - Polygons
- Measure of the overall clustering of the data.

 Assumed on Variety Chat powcoder

Options for Moran's I

R, spdep::moran.mc()

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What if you wanted to know if crime tot spots were occurring? Moran's I, indicates clustering

Identifies spatial concentrations

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When G is relatively low

Further reading: Getis, A. and Ord, J.M. (1992) The analysis of spatial association by use of distance statistics *Geographical Analysis*, 24(3) 189-206

- https://poweriesoder.com
 - Continuous

Add listorically, distance between polygon centrolds

- Raw Matrix (0/1)
 Mattps://powcoder.com
 - Divide each value by the row sum
 - Adjusts for varying number of borders

Exercise: Weight Matrix

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```
## A B C D E F G H row.sum

## A O
## Bhttps://powcoder.com
## C
## D O
## E Add WeChat powcoder
## G O
## H H D O
```

- Polygons that are close but do not share a border?
- In horder connections, e.g. bridge & tunnels

 Length O Sorder? DOW COURT. COM
 - Calculate using the length of shared border



Different spatial patterns may occur across space powers of the process of the pr

See: Luc Anselin 1995 Local Indicators of Spatial Association-LISA Geographical and Sees Property of Sees Luc Anselin 1995 Local Indicators of Spatial Association-LISA Geographical and Sees Luc Anselin 1995 Local Indicators of Spatial Association-LISA Geographical and Sees Luc Anselin 1995 Local Indicators of Spatial Association-LISA Geographical Association (1995 Local Indicators of Spatial Association-LISA Geographical Association (1995 Local Indicators of Spatial Association-LISA Geographical Association (1995 Local Indicators of Spatial Association) (1995 Local Indicators of Spatial Association (1995 Local Indicators of Spatial Association) (1995 Local Indicators of Spat

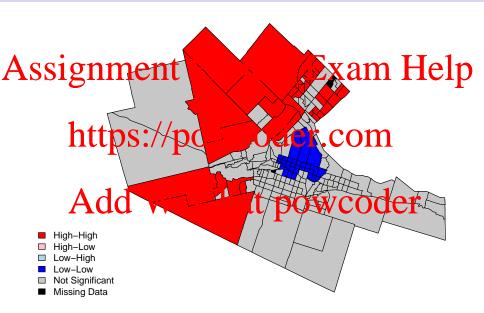
Often global measures have an associated local measure



Assignment Project Exam Help LISA: Local Indicator of Spatial Association

- We can map the DSA value for each polygon on How does spallal autocorrealation occur across space.
- Also, we can map out statistically significant polygons

Atthbs Wie as that v power outer



where z_i is the standardized values of x_i

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$$\sigma_{x} = \sqrt{\frac{1}{N} \sum_{i=1}^{N} (x_{i} - \mu)^{2}}$$

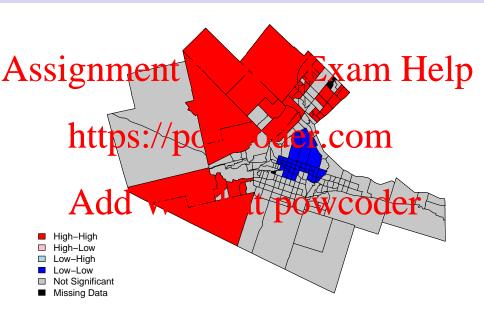
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$$I_i = z_i \sum_j w_{ij} z_j \mid z_i = \frac{x_i - \bar{x}}{\sigma_x}$$

- ► Statistical significance is calculated through simulations.
 ► It may this slightly each time it is calculated O III
- Available in ArcGIS

Significance Maps in R



Code in R

```
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```

Add We care that power weights