

README

Title

Spatial Dependencies in the Relationship between Automation and Migrant Worker Employment: Evidence from Chinese Cities

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Description

The empirical content comprises eight tables and two appendices, along with four charts, each corresponding to the empirical analysis in the paper. The data on migrant workers is sourced from the China Migrant Dynamic Monitoring Survey (CMDS) organised by the National Health Commission of China. The robot data comes from the dataset of China's industrial robots by industry, published by the International Federation of Robotics (IFR). Data on the number of employees across sectors in China and in each city are sourced from the China Statistical Yearbook and the China City Statistical Yearbook. The data for control variables are sourced from the China City Statistical Yearbook. The latitude and longitude coordinates, as well as the city's adjacency relationships, are available on the National Geographic Information System website (<http://bzdt.ch.mnr.gov.cn/>).

1. Before executing the .do-file please download the following user-written Stata commands (using: `ssc install [name of command]` or `findit [name of command]`):

`spatwmat, xsmle, xtmoran, splagvar, spatdiag, logout`

2. The replication folder contains all the codes for the empirical procedure in this paper.

For **Table 1**, please run the code below: # Bookmark 1 # Table 1 Descriptive Statistics.

For **Table 2**, please run the code below: # Bookmark 2 # Table 2 Global Moran's I

index.

For **Figure 1**, please run the code below: # Bookmark 3 # Figure 1. Moran's I scatter plot of the density of industrial robots and the employment of rural migrant workers

For **Tables 3 and 4**, please run the code below: # Bookmark # Table 3 Baseline Results and Table 4 Spatial Effect Decomposition.

For **Table 5**, please run the code below: # Bookmark # Table 5 Robustness Analyses.

For **Table 6**, please run the code below: # Bookmark # Table 6 Heterogeneity Analyses I

For **Table 7**, please run the code below: # Bookmark # Table 7 Heterogeneity Analyses II.

For **Table 8**, please run the code below: # Bookmark # Table 8 Transmission Mechanisms.

For **Table A1**, please run the code below: # Bookmark # Table A1. Spatial Panel Model Selection

For **Table A2**, please run the code below: # Bookmark # Table A2. Descriptive Statistics for the Different Spatial Weight Matrices