Instructions for the replication of

"Information Transmission in a Social Network: A Field Experiment"

by Eleonora Patacchini, Paolo Pin, and Tiziano Rotesi

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Overview

This README file accompanies the replication package and gives instructions on how to replicate all the results of the paper "Information Transmission in a Social Network: A Field Experiment" by Eleonora Patacchini, Paolo Pin, and Tiziano Rotesi. We provide the experimental data and the code for reproducing each table and figure. Full replication requires the use of Stata 17.

Project Folders

The following diagram displays the tree structure of the replication package:

```
replication_package/
   - Data/
   - script/
   - Results/
   - tmp/
   - ReadMe.pdf
```

The folder `script/` contains the Stata do-file used to read the data and perform the analysis. The tables and figure are stored in the folder `Results/`, while `Data/` contains the datasets.

Data

The Data directory contains two files.

- `Group_level.dta`: contains information at the group level, including information on whether nodes exchanged information.
- `Individual_level.dta`: contains information at the player level, including the hint received, the answers provided, and the score.

Replication Steps

Results reported in the paper were produced using Stata 17. The file `Tables_graphs.do` is the file to use for running the replication. First, set the working directory to the replication folder, modifying the `path` variable on row 18. To run the file, it may be needed to install additional packages from SSC.

The file `Centrality.py` calculates the centrality scores (degree and betweenness) for each position in the three networks. It was tested using Python v3.9.7 and the library networkx v2.8.4.

Figures and Tables

Table R1: List of Codes for Tables and Figures

File Name	**Do-file or Py-file**
Table 1	`script/Tables_graphs.do`
Table 2	`script/Tables_graphs.do`
Table 3	`script/Tables_graphs.do`
Figure 2	`script/Tables_graphs.do`
Table 4	`script/Tables_graphs.do`
Table A1	`script/Tables_graphs.do`
Table A2	Scores calculated using `script/Centrality.py`