Replication Instructions

The Replication folder includes two raw data files (BR_BusDyn_rawdata.xlsx and BR_BusDyn_rawsectoral.xlsx), figures.ipynb, this readme file, BR_BusDyn_for_replication.txt, and 14 .xlsx files with names starting with `BusDyn_fig'.

Start by creating 3 subfolders in your current directory: DataForFiguresDone, DataForFigures, and Figures. Then move the 14 .xlsx files with names starting with `BusDyn_fig' to the subfolder DataForFiguresDone.

All data required to reproduce figures is now in subfolder DataForFiguresDone in excel format. Simply run figures.ipynb in Python, which will take this data and reproduce each figure from the main article and the Online Appendix. Figures will be put into the empty subfolder Figures. Below is the list of figure names, corresponding to those in the article and appendix:

fig1a
fig1b
fig2
fig3
fig4a
fig4b
fig5
fig6
figA1
figA2a
figA2b
figA3
figD4
figF5

To reproduce the data already in DataForFiguresDone, as well as the calculations reported throughout the main article and Online appendix, copy and paste the code from BR_BusDyn_for_replication.txt into Maple. This will reproduce the data files (in .xlsx format) and put them in the subfolder DataForFigures. The code in BR_BusDyn_for_replication.txt uses data from the following two data files in the Replication folder: BR_BusDyn_rawdata.xlsx and BR_BusDyn_rawsectoral.xlsx.