Readme file of R codes and datasets for "Is being the only child harmful for psychological health?: Evidence from an instrumental variable analysis of China's One-Child Policy" by Shuxi Zeng, Fan Li and Peng Ding

Description

This folder contains contains several R code files for implementing the approaches proposed in the paper "Is being only child harmful for psychological health?: Evidence from a local instrumental variable analysis of China's One-Child Policy" by Zeng, Li and Ding, and the dataset from the empirical applications of the paper.

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R Code Files

`Data_Reading.R`	Loading the CFPS data
`Data_Loading.R`	Transform the data into the format for JAGS model

`JAGS_MODEL.R`	Functions define the model used in JAGS config
`JAGS_Sampling.R`	Main Script to perform MCMC, save the posterior sample
`Firstage_Plotting.R`	Ploting the Probability of being treated, produce results for Figure 1
`Average_Estimands.R`	Calculate the estimands defined in average, as well as the MTE, produce results for Figure 2
`Average_Utility_Func.R`	Required functions for `Average_Estimands.R`
`OtherMethods.R`	Implement other methods as comparison, produce results for Figure 5
`OtherMethods_Utility_Func.R`	Required functions for `OtherMethods.R`
`JAGS_Model_SA.R`	JAGS model config for sensitivity analysis.
`JAGS_Sampling_SA.R`	Perform MCMC for sensitivity analysis
`simulation_help.R`	Some helper functions to run simulations.
`simulation_main.R`	Main script to run simulation and draw Figure 8.
`Figureplotting.R`	Reproduce Figure 1-8 the paper
`Main_Outline.R`	Outline the procedures to produce all the results

Datasets

`IFPPR.txt`	Data for the instrumental variables
`CFPS_Cleaned_Data.RData`	Cleaned CFPS data
`cfps2010adult_report_nat092014.dta`	Original CFPS data, can be downloaded from http://www.isss.pku.edu.cn/cfps/EN/ with authorization.