Readme file of R code and datasets for "Bounded, efficient and multiply robust estimation of average treatment effects using instrumental variables" by Linbo Wang and Eric Tchetgen Tchetgen

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Description

This folder contains contains R code files for implementing the approaches proposed in the paper "Bounded, efficient and multiply robust estimation of average treatment effects using instrumental variables" by Wang and Tchetgen Tchetgen, and the data set for the data example used in the paper.

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R Code Files

`1.Simu.R`	Perform simulation studies
`1.6 Summary.R`	Summarize simulation results and create Table 2, Figure 2 and Table 4 in the paper
`NLS.RData`	Data file containing the education data set
`2.1 NLS.R`	Perform data analysis
`2.2 Summary.R`	Summarize data analysis results and create Table 3 in the paper

Instruction for Downloading .RData Files

Currently, if an .RData file on Harvard Dataverse contains multiple dataframes, only the 1st one

will be ingested. Users can get the original .RData file `NLS.RData` by downloading the converted file `NLS.tab` separately from other files. Choose the option "Original File Format (R Data)" when downloading.