

Readme

March 24, 2015

The folder named ‘replication’ stores Matlab codes and data sets for replication purposes, which were used in our paper: Song, Schennach and White (2015), “Estimating Nonseparable Models with Mismeasured Endogenous Variables.”

The data sets are based on the NLSY data used in Dahl and Lochner (2012), “The Impact of Family Income on Child Achievement: Evidence from Changes in the Earned Income Tax Credit,” *American Economic Review*, 102, 1927–1956. Prof. Dahl provided them for our paper. The data sets are:

- data_curr_math.xls: data for Table 6 and Figures 2–3
- data_curr_reading.xls: data for Table 7 and Figures 5–5

The folder contains codes to replicate results for both simulation and empirical application. Main files are:

- estimation_rmse: estimate squared bias, variance and RMSE reported in Table 2
- estimation_function_of_sample_size: estimate performances of the proposed estimator over different sample sizes reported in Table 3
- estimation_math: estimate impact of family income on children’s math achievement reported in Table 6
- bootstrap_math: estimate standard deviation of the estimator by bootstrap procedure reported in Table 6

Note that all other files should be kept in the same directory as one of the main files. All results for reading scores (Table 7) can be replicated by replacing data_curr_math.xls with data_curr_reading.xls. Optimal choice of smoothing parameters is reported in Table 5.