Replication files for "Nonparametric Ideal-Point Estimation and Inference"

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Summary of files

File	Description
description.md	This file (Markdown)
description.pdf	This file (PDF)
mc-1.R	Code for first Monte Carlo study
mc-1a.RData	Stored simulations from first Monte Carlo study
mc-1b.RData	Stored simulations from first Monte Carlo study
mc-1c.RData	Stored simulations from first Monte Carlo study
mc-2-out.RData	Stored simulations from second Monte Carlo study
mc-2.R	Code for second Monte Carlo simulation
sct-all.RData	Supreme Court data
sct-decade.RData	Stored results on Supreme Court dimensionality
sct.R	Code for Supreme Court examples

Monte Carlo studies (Section 5)

Because the Monte Carlo simulations can take quite a while to run, I have stored outputs of my own runs of the code in several included `RData` files, as noted below ("simulation results stored in ..."). The code will automatically load these rather than rerun the simulations if found in the working directory. If not, the simulations will be rerun and these files will be regenerated.

First Monte Carlo study (Section 5.1)

The code for the first Monte Carlo study is in `mc-1.R`. The code will output three tables, corresponding to tables in the text:

- `table-sim-sym.tex` corresponds to **Table 1** with simulation results stored in

`mc-1a.RData`.

- `table-sim-asym.tex` corresponds to **Table 2** with simulation retults stored in `mc-1b.RData`.
- `table-sim-mse.tex` corresponds to **Table 3** with simulation results stored in `mc-1a.RData`.

Second Monte Carlo study (Section 5.2)

The code for the second Monte Carlo study is in `mc-2.R`. The code will output three files:

- `pvals.pdf` corresponds to **Figure 1**, giving a histogram of the p-values.
- `pvals-qqplot.pdf` presents this same information as quantile-quantile plots rather than histograms. This does not appear in the paper.
- `siminfo.tex` contains latex commands to produce several numbers used in the text of Section 5.2. This was done to avoid the typos and hassle that would result from copying them manually.

Supreme Court examples (Section 6)

The code for both Supreme Court examples is in `sct.R` using data from the Supreme Court Database stored in `sct-all.RData`.

Blackmun example (Section 6.1)

The output for the Blackmun example, generated by `sct.R`, is `blackmunp.tex`. This contains latex commands to produce several numbers used in the text of Section 6.1.

Multidimensionality example (Section 6.2)

The output for the multidimensionality, generated by `sct.R`, is `sct-pvals.tex`. This produces **Table 4** in the text. As with the Monte Carlo examples, the computations in this section can be quite slow. The output of my own run in stored in `sct-decade.RData`. If this file is found in the working directory, it will be loaded and the computations will not be rerun. If it is not found, the computations will be rerun and this file will be regenerated.