R Code and Datasets for "Posterior Predictive Propensity Scores and p-Values"

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1 R Code

1.1 Functions

- `Main Function.R`: Call other functions.
- `dta_generating.R`: Generate dataset.
- `estimating.R`: Calculate the test statistics.
- `testing.R`: Implement the test.
- `data processing.R`: Plot the results.

1.2 Simulations

- `test codes.R`: Test whether the functions above work properly.
- `weak null using unstudentized stat.R`: Simulation in Section 4.2 (Figure 1).
- `weak null regular DGP.R`: Simulation in Section 4.2 (Figure 2(a)).
- `weak null extreme DGP.R`: Simulation in Section 4.2 (Figure 2(b)).
- `compare four methods-extreme PS.R`: Simulation in Section 4.3 (Figure 3(a)).
- `compare four methods-alternative hypothesis.R`: Simulation in Section 4.3 (Figure 3(b)).

1.3 Applications

- `bootppp bmi data.R`: didn't include in the article.
- `bootppp cps data.R`: didn't include in the article.

2 Dataset

- `NHANES_BMI`, available at data `nhanes_bmi` in the `ATE` package in `R`.
- `Lalonde`, uploaded.