README.md 5/30/2022

Bootstrap selection comparison: subsample selection efficiency

created at Jan/20/2019

upadated at Apr/20/2022

File structure

the Python packages and simulation for bolasso and bsolar comparison on subsample selection efficiency at Section 4 of the paper.

supporting functions

- ./numerical result: the folder of all numerical results, saved as ".p";
- bolasso_parallel.py: the Python package "bolasso" (parallel computing);
- bsolar.py: the Python package "bsolar";
- costcom.py: the package to compute the regression error;
- debug.sh: (for macOS and Linux only) the bash file for bug testing of all .py files here.
 - in Mac OS or Linux, open terminal and switch to this folder; run "bash debug.sh" command
 - it will produces all the test plots, results and tables;
 - if you find no error during the procedure and the bash file ends normally, there is no bug of all the packages in this folder.
- solar and solar_parallel.py: the Python package "solar";
- bootstrap_demo_parallel.py: all the simulation functions (computation and plotting functions) that bsolar and bolasso require in the simulation;

simulations

 subsample_frequency_bolasso_bsolar.ipynb : the simulation for bolassobsolar comparison on subsample selection efficiency;