README.md 5/30/2022

Demonstration of Python packages "solar", "bsolar", and "bolasso"

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File structure

the step-by-step walkthrough of "bolasso_parallel", "solar_parallel" and "bsolar_parallel.py"

• supporting functions

- o simulator.py: the data generating package;
- o costcom.py: the package to compute the regression error;
- solar.py : the Python package "solar";
- solar_parallel.py: the Python package "solar" (parallel computing);
- o 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_simul_demo.py** : all the simulation functions that the solar demostration needs.

demostrations

• **bsolar_walkthough**, **bolasso_walkthough** and **solar_demo.ipynb**: the step-by-step demonstration for bsolar, bolasso and solar.