OpenSourceEconomics

A platform for transdisciplinary collaboration

November 22, 2019

Visit us on Github

Computational modeling in economics

- provide learning opportunities
- assess importance of competing mechanisms
- predict the effects of public policies

Development

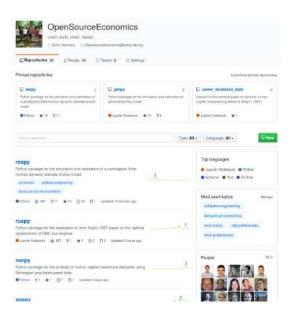
- economic model
- mathematical formulation
- computational implementation

Application

- verification
- estimation
- validation
- uncertainty quantification

OpenSourceEconomics

We are a group of economists using computational models in the pursuit of our research. By adopting sound software engineering practices, we hope to leverage tools from computational science and increase the transparency and extensibility of our implementations. In doing so, we expand the set of possible economic questions that we can address and improve the quality of our answers.



Members

- Professors
- Postdoctoral researchers
- PhD students
- Master students
- ► Bachelor students

Models

- respy
- soepy
- ruspy
- grmpy

Infrastructure

- estimagic
- ose_utils
- datasets

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Communication become or as reliable, place or benefiting senses

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Welcome to respy's documentation!

PvPI | GitHub | Issues | Pull Requests

respy is a tool to solve, simulate, and estimate structural econometric models. It provides the computational support for several research projects that analyze the economics driving agents' educational and occupational choices over their life cycle within the transevers of a finite-horizon discrete choice dynamic programming model.

The package is under ongoing development. We add new leatures every week and try to make it more feable and easier to use without sacrificing execution speed. Our goal is to cover any model that falls under the classification of Keane-Wolph-Ecistain models as proposed in a recent survey by Aguirregabria and Mira (2010) and we are almost there. Already, you can replicate the seminal work by Keane and Wolpin (1994) and Keane and Wopin (1997).

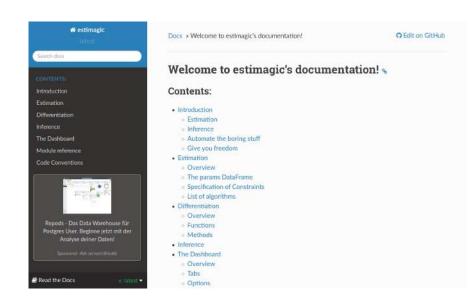
Please visit the rest of our documentation to get more detailed information.

- Quickstart
- Tutorials
- · Replications
- Economics
- Software
- Development
 API
- Additional Information

If you have any questions or comments, please do not hesitate to contact us on slack or file an issue on GitHub.

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respy 2.0.0 dev documentation ×



Development

- GitHub organization
- Gitflow workflow
- code reviews
- testing harness
- continuous integration

Support

- team meeting
- chatroom
- courses
- hackathons
- quality guide

Events

- conferences
- retreat

Figure: Impressions





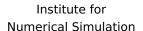
PASC Retreat

Cooperations





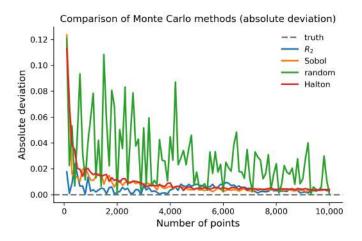




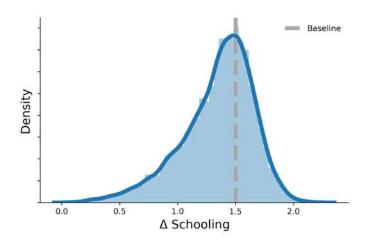


Example projects

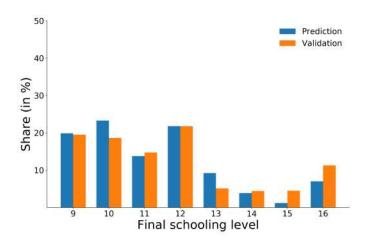
Advanced numerical integration



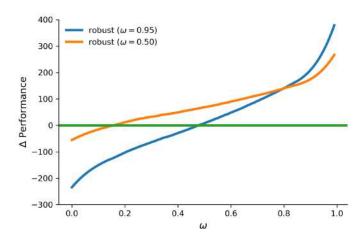
Uncertainty quantification



Option value of schooling



Robust decision making



Join us!

GitHub http://bit.ly/ose-github

Meetup http://bit.ly/ose-meetup

Slack http://bit.ly/ose-slack