

GEOWEAVER

ML/AI WORKFLOW SOLUTION

Highlights:

- Hybrid Resources
- Full Accessibility
- Hidden Data Flow
- Code-Machine Separation
- Process-Oriented Provenance

What is Geoweaver

Geoweaver is an open source software that enables you to manage geoscientific ML/AI workflows with thorough provenance across distributed resources. It aims at a stable platform for geospatial data-based machine learning/artificial intelligence workflow management, sharing, replication and reuse.

What can Geoweaver do?

It allows users to export their workflows, effortlessly share among geoscience community as best practices, and replicate them on other Geoweaver instances.

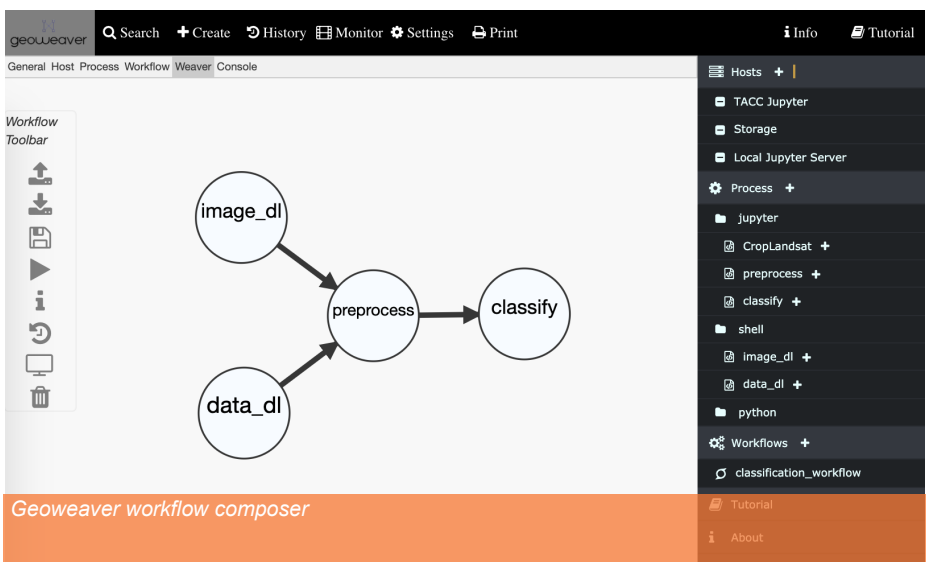
The existing shell scripts, command lines, Python code, Jupyter notebooks can be seamlessly managed in Geoweaver .

What is special about Geoweaver?

One special feature is that Geoweaver can intercept websocket traffic between browsers and Jupyter web server, saving versions of notebooks as editing, and allowing people to return to previous states via query the automatically recorded provenance.

“Deriving (Earth) scientific insights from artificial intelligence methods requires adhering to best practices and moving beyond off-the-shelf approaches ”

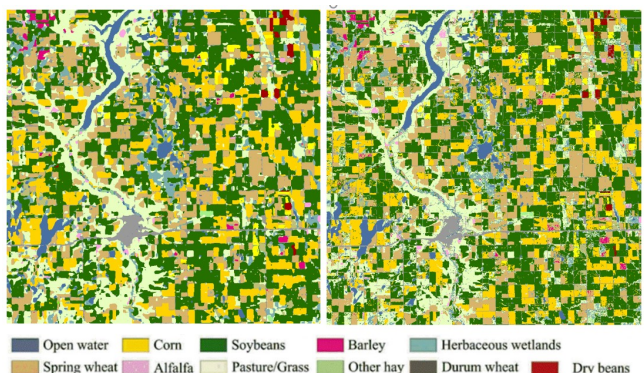
-Imme Ebert-Uphoff



GitHub: <https://github.com/ESIPFed/Geoweaver>

Tutorial: <https://andrewmagill.github.io>

Recording: <https://www.youtube.com/watch?v=RJqesgb9GeY>



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