

eigene Vivek/DiffDRR

eigenvivek/DiffDRR: Auto-differ

github.com/eigenvivek/DiffDRR

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eigenvivek Merge pull request #62 from eigen...

9b73d44 2 days ago

249 commits

.github/workflows	Rename python-package-conda.yml to CI.yml	12 days ago
diffdrv	Fix GIF whitespace	12 days ago
experiments	Add figures for NM	2 days ago
figures	Add figures for NM	2 days ago
notebooks	Add example of failure to converge	2 days ago
test	Add tests for two modules	14 days ago
.gitattributes	Create .gitattributes	2 months ago
.gitignore	Unhide data folder	25 days ago
LICENSE	Initial commit	2 months ago
Makefile	Rename module src->diffdrv	22 days ago
README.md	Update	2 days ago
environment.yml	Change order of channels	26 days ago
setup.py	Rename module src->diffdrv	22 days ago
tox.ini	Initial commit	2 months ago

README.md

DiffDRR

Paper

arxiv.2208.12737

License

MIT

CI

passing

Code style

black

DiffDRR

is a package for differentiable DRR synthesis and optimization

Overview

Installation Guide

About

Auto-differentiable digitally reconstructed radiographs in PyTorch.

medical-imaging

raytracing

differentiable-programming

digitally-reconstructed-radiograph

Readme

MIT license

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3 watching

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Python 91.1%

Makefile 8.9%



Advantages of DiffDRR

 [eigenvivek/DiffDRR](https://github.com/eigenvivek/DiffDRR)

- Fast DRR generation
- Fast DRR optimization
- Pure Python (easy installation)
- Integrable with deep learning
- Pretrain task-specific networks!

