IASGAN: Ionogram Automatic Scaling with Adversarial Learning

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Code for paper 'Automatic Scaling of Vertical Ionograms Based on Generative Adversarial Network'

Dataset

link to dataset: <http://www.geophys.ac.cn/ArticleDataInfo.asp?MetaId=205>.

Prerequisites

Python3.9

Tensorflow2.8

Segmentation-Models

PyYaml

Training

You can use --gpu argument to specifiy gpu. To train a model, first create a configuration file (see example\_config.yaml) Then run

python train.py

Testing

To test, run

python test.py

Evaluation

You can evaluate the model's performance by running script:

python eval.py