

Estimación da idade cronolóxica en OPGs

This repository contains the source code of the paper "[Deep Neural Networks for Chronological Age Estimation From OPG Images](#)". In this paper, two Deep Neural Networks (DANet and DASNet) were proposed as a way to estimate the chronological age of a subject from a panoramic dental image.

The source code is composed of the network architectures, the data augmentation approach and the scripts needed to train both networks.

Requeriments

- Python 3
- scikit-image
- scikit-learn
- PIL
- tensorflow (>2.0.0)

Usage

To train the networks with your own data, you should implement the file `data.py`, following the instructions in the comments. The images must be rescaled to 128x256 before arranged in a numpy array.

After that, you should be able to run the training scripts through

```
$ python3 train_danet.py
$ python3 train_dasnet.py
```

The performance of the methods is evaluated on the test set, and the performance metrics are printed.

Troubleshooting

If you find some bugs in the code, please fill an issue [here](#). Feel free to contact me on nicolas.vila@usc.es with any other suggestion or doubt

Citation:



If you use this code, please cite the paper:

```
@article{vilablanca2020,
  author={N. {Vila-Blanco} and M. J. {Carreira} and P. {Varas-Quintana} and C. {Balsa-Castro} and I. {Tomás}},
  journal={IEEE Transactions on Medical Imaging},
  title={Deep Neural Networks for Chronological Age Estimation From OPG Images},
  year={2020},
  volume={39},
  number={7},
  pages={2374-2384},}
```

INFORMACIÓN

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DESCARGAR

-  Repositorio Gitlab
-  Descargar de Gitlab