

Tri-net for Semi-Supervised Deep Learning

This is the implementation of Tri-net in Pytorch. The code is written by Dong-Dong Chen. The work was accepted by IJCAI 2018.

Installation

- Install Python (Works on Version 3.6.7)
- Install PyTorch (Works on Version 0.3.1) and dependencies from <http://pytorch.org>.
- Install Torchvision.

Download Dataset

- Download CIFAR-10 dataset from [here](#).

Place it in the directory `./data` and CIFAR-10 data path should be: `./data/cifar-10-batches-py/xxx`.

An Example

```
python main.py
```

where 'ds' indicates the dataset you use. If you want to run an experiment with other datasets or other settings: like `Tri-net w/o xxx`, please see the help information of the parameters by running:

```
python main.py -h
```

If there are any questions, please feel free to contact with me: Dong-Dong Chen (chendd@lamda.nju.edu.cn).

Citation

Please cite our work if you feel the paper or the code are helpful.

```
@inproceedings{conf/ijcai/ChenWGZ18,  
  author    = {Dong{-}Dong Chen and wei wang and wei Gao and Zhi{-}Hua Zhou},  
  title     = {Tri-net for Semi-Supervised Deep Learning},  
  booktitle = {Proceedings of the Twenty-Seventh International Joint Conference on  
              Artificial Intelligence, {IJCAI} 2018, July 13-19, 2018, Stockholm,  
              Sweden.},  
  pages     = {2014--2020},  
  year      = {2018}  
}
```