**交接文件**

BBLABCLOUD 目錄結構 (Directory entry: home /lab resources /lab works /Research Assistances /劉亮謙(2020-2021) /)

1. Action recognition

* Code:

1. inference: python main.py --root\_path C:\Users\b04204038\Desktop\3D-ResNets-PyTorch-master --annotation\_path greenhouse.json --result\_path results --dataset greenhouse --resume\_path save\_100.pth --model\_depth 18 --n\_classes 7 --n\_threads 4 --no\_train --no\_val --inference --output\_topk 2 --inference\_batch\_size 1 --video\_path
2. training: python main.py --root\_path ~/kenshohara/3D-ResNets-PyTorch/ --video\_path green\_data/persons/ --annotation\_path green\_data/g\_json/0718green1.json --result\_path green\_data/results\_new/vt40/ --dataset greenhouse --model resnet2p1d --n\_classes 7 --pretrain\_path models/r2p1d18\_K\_200ep.pth --ft\_begin\_module fc --n\_epochs 100 –time
3. jpg to txt file: python handytools/jpg2txt\_real.py --path green\_data/jpgs/ --name green\_data/0603txt/
4. txt to json: python -m util\_scripts.greenhouse\_json green\_data/0603txt/ green\_data/persons/ green\_data/g\_json/ 0603green1.json
5. confusion matrix: python handytools/nowalk\_inf\_eval.py --path green\_data/results\_new/vt\_20/val.json --name green\_data/results\_new/vt\_20/vt\_20.png
6. data augmentation: python handytools/jpg\_vidaug.py

* Files

1. Green\_data/results\_new: training results
2. Green\_data/persons: action data jpg file
3. Streaming

* Code:

1. Rpi streaming code: imagezmq/udp\_zmq.py or test.zmq
2. Server streaming code with action recognition: python main.py --root\_path C:\Users\b04204038\Desktop\3D-ResNets-PyTorch-master --annotation\_path greenhouse.json --result\_path results --dataset greenhouse --resume\_path save\_100.pth --model\_depth 18 --n\_classes 7 --n\_threads 4 --no\_train --no\_val --ipcam --output\_topk 2 --inference\_batch\_size 1
3. Server streaming code with yolo data collection: python main.py --root\_path C:\Users\b04204038\Desktop\3D-ResNets-PyTorch-master --annotation\_path greenhouse.json --result\_path results --dataset greenhouse --resume\_path save\_100.pth --model\_depth 18 --n\_classes 7 --n\_threads 4 --no\_train --no\_val --inference --output\_topk 2 --inference\_batch\_size 1