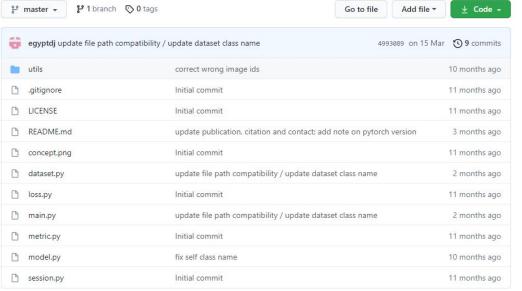
i-TAP meeting

홍익대학교 노승문 2021. 5. 28

Cannot find a code for EED



About

Python 100.0%

| in | age-reconstruction signal-processing |
|-----|--------------------------------------|
| ra | w-to-rgb eccv2020 aim2020 |
| Ф | Readme |
| δĮδ | GPL-3.0 License |

∃ README.md

Team *skyb* solution for the AIM2020 mobile image signal processing challenge

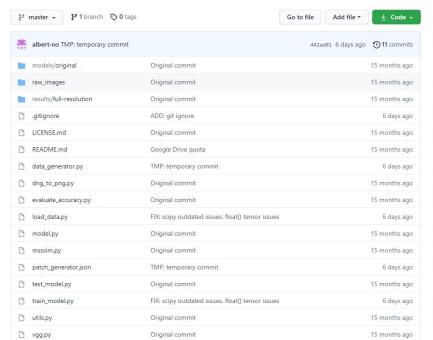
Publication

PyNET-CA: Enhanced PyNET with Channel Attention for End-to-End Mobile Image Signal Processing

Byung-Hoon Kim, Joonyoung Song, Jong Chul Ye, JaeHyun Baek ECCV 2020 Workshops - Advances in Image Manipulation (AIM)

PyNet-CA code

Pretrained: 195.83MB



About

No description, website, or topics provided.

63

☐ Readme

View license

Releases

No releases published Create a new release

Packages

No packages published Publish your first package

Contributors 2



albert-no

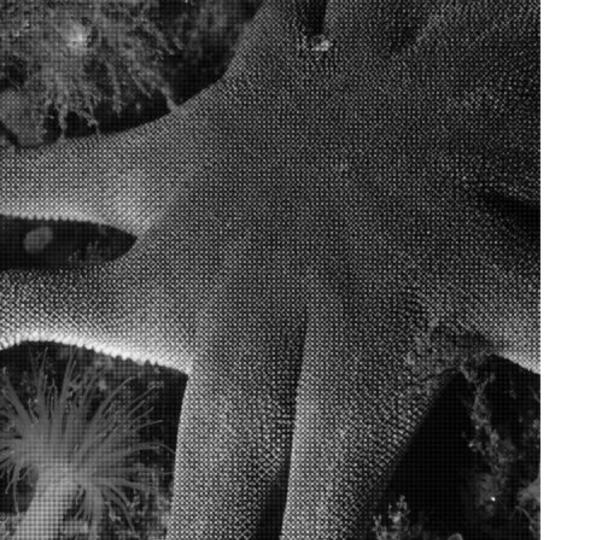
Languages

Python 100.0%

Training

- train_model
 - Quad (not QxQ)
 - Parameters: TRAIN_SIZE 46839->800 (1.7%), etc
 - Epoch: 8, 8, 17, 17, 25, 50 (for levels 5 0)
 - Model size (level=0): 182MB
- Test
 - Reused the trained input (just sanity check)



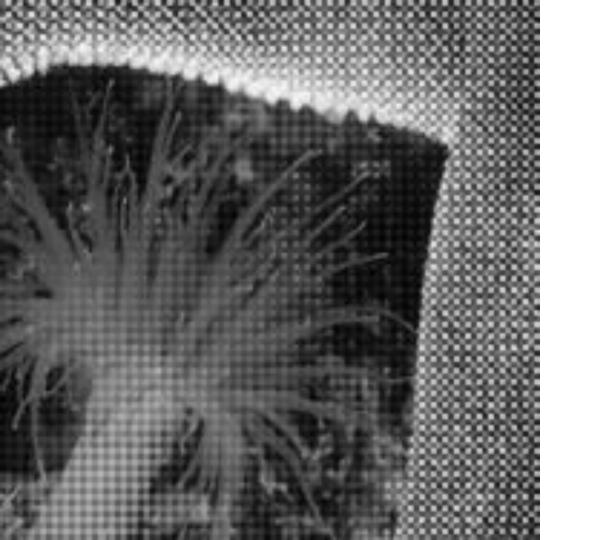




demosaiced



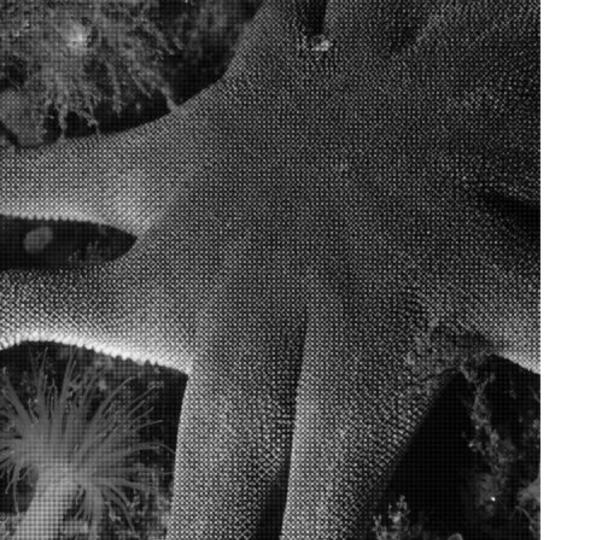






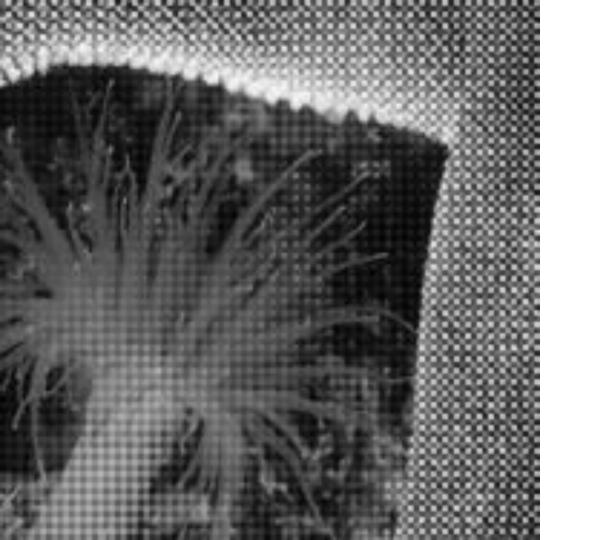
demosaiced

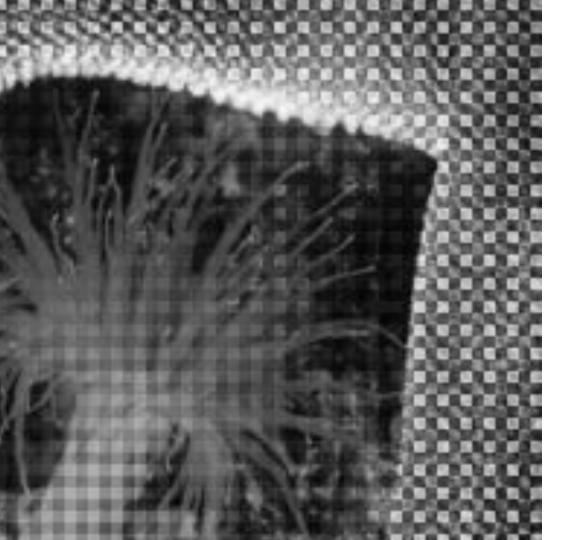






QxQ





QxQ

Concerns

- Training Data
 - Can we just apply cfa filters?
 - Exact meaning of bicubic downscaling
 - Way of downsampling? kernel?
 - Training data should be in original scale

Data access

. (NTIRE 2017) Low Res Images:

- Train Data Track 1 bicubic downscaling x2 (LR images)
- Train Data Track 2 unknown downgrading operators x2 (LR images)
- Validation Data Track 1 bicubic downscaling x2 (LR images)
- Validation Data Track 2 unknown downgrading operators x2 (LR images)
- Train Data Track 1 bicubic downscaling x3 (LR images)
- Train Data Track 2 unknown downgrading operators x3 (LR images)
- Validation Data Track 1 bicubic downscaling x3 (LR images)
- Validation Data Track 2 unknown downgrading operators x3 (LR images)
- Train Data Track 1 bicubic downscaling x4 (LR images)
- Train Data Track 2 unknown downgrading operators x4 (LR images)
- Validation Data Track 1 bicubic downscaling x4 (LR images)
- Validation Data Track 2 unknown downgrading operators x4 (LR images)

. (NTIRE 2018) Low Res Images:

- Train Data Track 1 bicubic x8 (LR images)
- Train Data Track 2 realistic mild x4 (LR images)
- Train Data Track 3 realistic difficult x4 (LR images)
- Train Data Track 4 realistic wild x4 (LR images)
- Validation Data Track 1 bicubic x8 (LR images)
- Validation Data Track 2 realistic mild x4 (LR images)
- Validation Data Track 3 realistic difficult x4 (LR images)
- Validation Data Track 4 realistic wild x4 (LR images)

High Resolution Images:

- Train Data (HR images)
- Validation Data (HR images)

Questions?