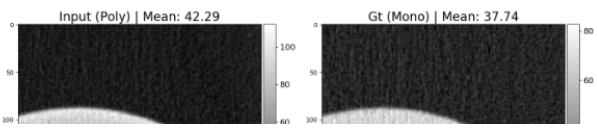
Pasnas-Directory-Description

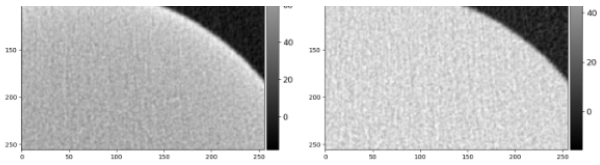
Mittwoch, 13. Oktober 2021 16:33

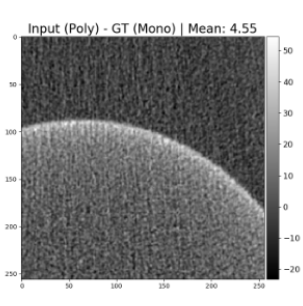
Directory-location: /net/pasnas01/pool1/enpro-2021-voxie

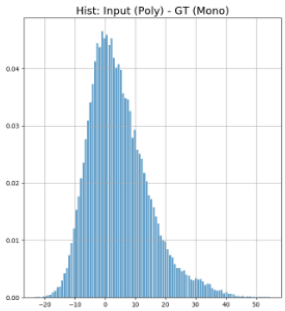
Directory-Description:

- Training (All Pytorch Training artefacts):
  - Logs: All Logs (Checkpoints, Tensorboard Files, Training JSON Arg files for traceability..) sorted to corresponding dataset (tensorboard experiment name)
    - E.g. al_cu_data has all logs with this dataset (ALuminium and copper (CU)) and different models as described in MV_SM_MM. Each version used is given in column 2 "dataset" of the Result Tabels.
  - Slum_files: slurm scripts used to train/evaluate on cluster & Slurm logs
  - Manual_runs: tensorboard files for manual inference runs with checkpoints
  - Dl_beamhardening: DL Git repository
  - old_train_json: json files for training args before we had this folder structure
- artist_projects
  - ARTist projects used to obtain the ct-projections from the surfaces
- copper_wire_72_02
  - Not downsampled version of the Copper-wire volume
- ctutil
  - ctutil repo/ build --> used for reconstruction
- dl_beamhardening
  - Repository
    - Data processing scripts stored here (See README for more details)
- hdf5_tiffs
  - All projections (.tiff files) from a aRTist 3D scan stored in a single .hdf5 file
    - ctutils takes them as input
- nohup_files
  - Nohup/ log-files from the data-processing/ creation scripts
- qt
  - Qt-includes for voxie (To run voxie on pasnas)
- reconstructed_volumes
  - Reconstructed & Cutted volume data from ctutil (.hdf5 files)
    - One mono- & polychromatic reconstruction for each surface
- slurm_files
  - Slurm files for the data creation/ processing pipeline
    - Reconstructions with ctutil & corresponding logs
- surfaces
  - Surface data (.ply files) that were created by the Marching-Cube algorithm from volume data with the help of voxie
- surfaces_artec3d
  - Surface data (.ply files) that was downloaded from https://www.artec3d.com/3d-models
- tiff_files
  - Projections (.tiff files) from the aRTist 3D scan of each surface!
  - Are deleted
- voxie_projects
  - Voxie project that compares a volume where beam hardening is removed with the original volume (removed with CNN-AI-CT)
- slice_images
  - .png files that show the data
  - Used to analyze/ understand the data.






Input (Poly) - GT (Mono) | Mean: 4.55


Hist: Input (Poly) - GT (Mono)