

MAD (MORPHING Attack Detection)

Morphing Methods :

- OpenCV (Facial Landmark Detection and Delaunay Triangulation) : <https://learnopencv.com/face-morph-using-opencv-cpp-python/>
- FaceFusion (<https://github.com/facefusion/facefusion>)
- Diffusion Morphing (<https://github.com/Kevin-thu/DiffMorpher>)
- DeepFake (<https://github.com/iperov/DeepFaceLab/issues/677>)
- GAN Face Partial Swapping (<https://github.com/e4s2022/e4s>)
- OpenCV (Delaunay Triangulation and Smoothing) Face Swap (<https://github.com/clferrari/FacePartsSwap>)
- StyleGAN (v2/v3) PyTorch (<https://github.com/NVlabs/stylegan>)
TRAIN
- Squirrel Morph 2.1 algorithm

Datasets :

Progressive Morphing Database (PMDB), Idiap Morph, AR-MAD, FRGC, Color Feret, Ferret, FRLL (Face Research London Lab), MorpDB, FEI Morph, FEI, CFD.

We just have FRLL (Face Research London Lab), and FERET(https://192.168.0.8:5001/~//Test_folder/FM_Face_Morphing_Datasets). If you want to download you have to take a licence for original data and generate MORPs with that original data.

MORP Detection :

- IDistill (<https://github.com/NetoPedro/IDistill>) -> learning MORPH detection by using bonafide image features
- SPL-MAD (<https://github.com/meilifang/SPL-MAD>) -> Unsupervised Face Morphing Attack Detection via Self-paced Anomaly Detection
- ACIDA (<https://github.com/ndido98/acida>) -> Dealing with Subject Similarity in Differential Morphing Attack Detection
- EDITED image detection (<https://github.com/JordanMLee/Identifying-Human-Edited-Images>) -> Identifying Human Edited Images using a CNN
- SMDD (<https://github.com/naserdamer/SMDD-Synthetic-Face-Morphing-Attack-Detection-Development-dataset>)
- OrthoMAD (<https://github.com/netopedro/orthomad>) -> OrthoMAD: Morphing Attack Detection Through Orthogonal Identity Disentanglement