

Powered by

Solar Orbiter Images

Challenge

CODE MEGAFLARE - Sadia Marium, Moudud Hasan, Marvin Mez, Bastian Schuchardt and Felix Wersig



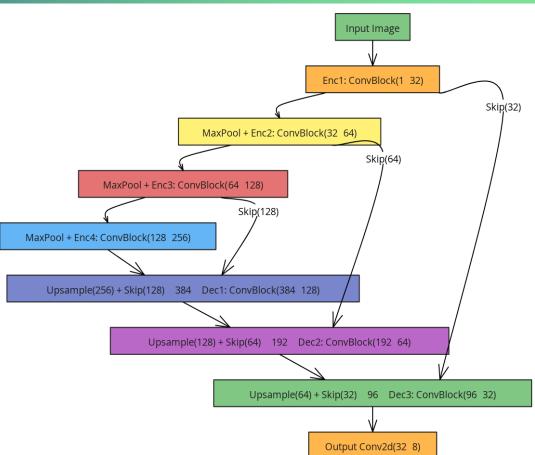
Organization Among the Team

- •Explore multiple architectures
- •Bastian Schuchert and Moudud Hasas → Unet and Autoencoder
- Felix Wersig → GAN (Unet generator)
- •Sadia Marium and Marvin Mez → Improve upon earlier results and presentation



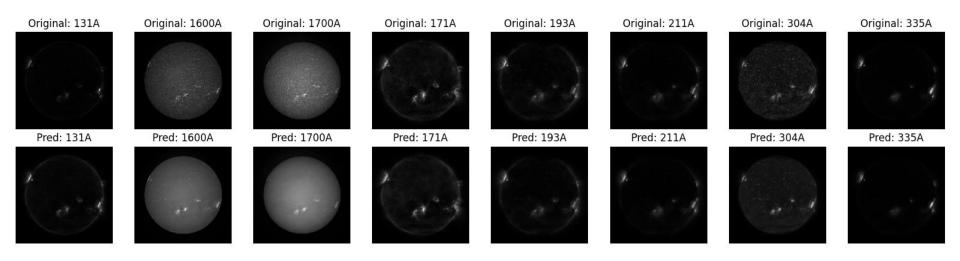
UNet





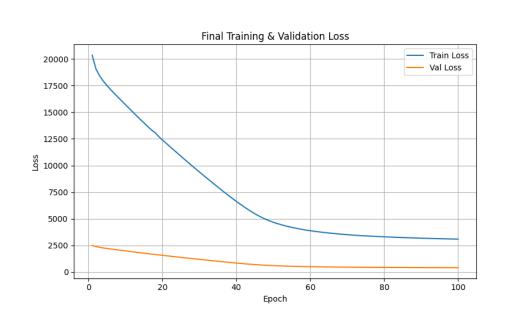


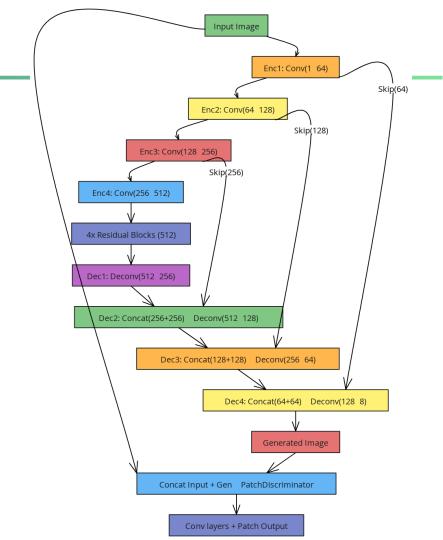
Unet results





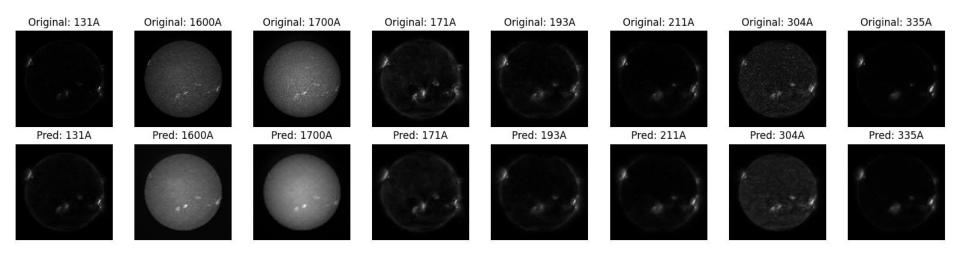
GAN







GAN results





Environmental Impact

Unet (64 epochs)

GAN (100 epochs)

Comparison: A typical gasoline car emits around 4 kg of CO₂ during a 30-minute drive.



Outlook

- Stick to the model we've got so far.
- Remove the diagonal stripes by rotating the images.
- Better loss-function than L1Loss