Architecture Trade-space

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Output** | **Architecture** | **Loss Functions** |
| Real Valued Image | Clean Image | DnCNN | L2 Norm  Perceptual Loss |
| Real Valued Image | Residual | DnCNN |  |
| Real Valued Image | Clean Image | Auto encoder CNN |  |
| Real Valued Image | Residual | Auto encoder CNN |  |
| Real Valued Image | Zernike Polynomial Coefficients | DnCNN with fully connected ReLU terminal layer |  |
| Phase of Distorted Image Spectrum | Phase of Clean Image Spectrum |  |  |
| Phase of Distorted Image Spectrum | Residual Phase of Clean Image Spectrum |  |  |
| Complex Valued Image | Clean Complex Image |  |  |
| Complex Valued Image | Complex Residual |  |  |
| Complex Image Spectrum | Clean Complex Spectrum |  |  |
| Complex Image Spectrum | Residual |  |  |

Hyper-parameter Tuning

<https://ray.readthedocs.io/en/latest/tune-usage.html>

Normalization