Furry Image Generation with Generative Adversarial Networks

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In this dissertation, a generative adversarial network is trained for furry image generation through transfer learning. The base model is StyleGAN2 pre-trained on the Flickr-Face-HQ dataset at the resolution of 256×256. Structure loss and similarity loss are employed to help training the new model based on pre-trained weights. Several configurations are tested for training, from which the best one is selected and used for layer swapping to capture more human facial features. Results show that furry features from the training data are successfully transferred to the generated images.