Motion Diffusion Model to Denoising Diffusion GAN: Efficient Motion Sampling

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Abstract

All existing motion diffusion models use the standard diffusion process which yields high quality samples. However, the standard process for these models can be inefficient. These are one of the challenges with the learning trilemma and this works concerns embedding an existing motion diffusion model into denoising diffusion GANs to create a hybrid architecture of the motion diffusion model. This new hybrid model will satisfy the learning trilemma, thus improving the sampling speed when training and generating a motion sample. https://github.com/CAP6412-Group-4/denoising-diffusion-gan

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