

Text Conditioned Generative Adversarial Networks Generating Images and Videos: A Critical Review

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Aims and scope

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Abstract

Generative adversarial networks (GANs) have attained a lot of attention in the deep learning community and have been in focus for the past few years. GAN finds its application in numerous tasks, among which generation of images or videos from text is regarded as the most impressive application w.r.t computer vision and natural language processing. These GANs which take text as input and produce images or videos are referred to as Text Conditioned GANs. A significant amount of progress has been made in text generated images. Nonetheless, there are still some areas that require attention. Also, while the challenge of generating videos from text has been addressed, the number of studies is less in comparison to text to image studies. The primary goal of this work is to present a state of the art Text Conditioned GAN variants that includes Text to Image