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(57) Abstract :

The present invention describes a system (100) and method (300) semi-supervised conditional generative modeling using adversarial networks (108). The semi-supervised learning is a type of machine learning that involves training a model using both labeled and unlabeled data. The system (100) has been shown to be an effective way to reduce the amount of labeled data required for training and improve the performance of the model. The proposed system (100) consists of three networks, a generator, a discriminator, and a classifier. The generator takes as input a noise vector and a condition vector and generates a sample that is intended to match the condition. The discriminator attempts to distinguish between real and generated samples, while the classifier attempts to classify the condition of the samples.

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