

# Abstract及其翻译

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## 1.原文:

### Sketch Your Own GAN

From ICCV 2021

[1] Can a user create a deep generative model by sketching a single example? [2] Traditionally, creating a GAN model has required the collection of a large-scale dataset of exemplars and specialized knowledge in deep learning. [3] In contrast, sketching is possibly the most universally accessible way to convey a visual concept. [4] In this work, we present a method, GAN Sketching, for rewriting GANs with one or more sketches, to make GANs training easier for novice users. [5] In particular, we change the weights of an original GAN model according to user sketches. [6] We encourage the model's output to match the user sketches through a crossdomain adversarial loss. [7] Furthermore, we explore different regularization methods to preserve the original model's diversity and image quality. [8] Experiments have shown that our method can mold GANs to match shapes and poses specified by sketches while maintaining realism and diversity. [9] Finally, we demonstrate a few applications of the resulting GAN, including latent space interpolation and image editing.

## 2.翻译:

### 标题:

原文: Sketch Your Own GAN

意思为起草你自己的对抗生成网络

其中, GAN意思为Generative Adversarial Networks,生成式对抗网路,一种深度学习模型

### 具体内容

- [1] 用户可以通过一个简单的草图来创建一个**深层**的生成模型吗?
- [2] 一般来讲, 创建GAN模型需要收集**大规模的样本数据**并且要求个人具有**深度学习方面的专门知识**。
- [3] 相比之下, 素描草图可能是传达视觉概念的**最普遍**的方式。
- [4] 在这项工作中, 我们提出了一种方法, **GAN素描草图**, 即用一个或多个草图重写GAN, 使GAN训练更容易为新手用户所用。
- [5] 在这项工作中, 我们独特地根据用户草图改变一个**原始GAN模型的权重**。
- [6] 我们让模型的输出通过**跨域对抗损失**来匹配用户的草图。
- [7] 此外, 我们研究探索了不同的正则化方法, 以保持原始模型的多样性和图像质量。
- [8] 实验表明, 我们的方法可以塑造GAN匹配的**形状和姿势**指定的草图, 同时保证真实度和图片的多样性。
- [9] 最后, 我们演示了生成GAN的一些应用, 包括潜在空间插值和图像编辑。