

# BertonGan: a conditional GAN for performing various tasks

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December 15, 2022

# **1 Introduction**

## **1.1 Generative Adversarial Networks**

Generative Adversarial Networks were introduced by Ian Goodfellow [1].

# **2 Methods**

## **2.1 BertonGan structure**

## **2.2 Networks**

## **2.3 Training Procedure**

# **3 Experiments**

## **3.1 MNIST Experiments**

## **3.2 CelebA Experiments**

# **4 Conclusion**

## References

- [1] I. Goodfellow, J. Pouget-Abadie, M. Mirza, B. Xu, D. Warde-Farley, S. Ozair, A. Courville, and Y. Bengio, “Generative adversarial networks,” *Communications of the ACM*, vol. 63, no. 11, pp. 139–144, 2020.