Abstract

Convolutional neural networks have recently become extremely popular in various deep learning applications. One such application is style transfer for images. Following this trend, this paper explores how this technique can be applied to audio data. The technique discussed involves combining the content features of one audio sample with the style features of another audio sample. The results produced show how a Convolutional Neural Network can be used to extract features from audio signals. The paper also discusses the various modifications made in the algorithm used for image style transfer in order to apply it to audio signals.

References

2. Neumann, László, and Attila Neumann. "Color style transfer techniques using hue,

**Index Terms**

Computer Science  Networks

**Keywords**

Convolutional Neural Network, Deep learning, Style Transfer, Gram Matrix.