Neural Image Style Transfer

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Abstract

The ABSTRACT is to be in fully-justified italicized text, at the top of the left-hand column, below the author and affiliation information. Use the word "Abstract" as the title, in 12-point Times, boldface type, centered relative to the column, initially capitalized. The abstract is to be in 10-point, single-spaced type. Leave two blank lines after the Abstract, then begin the main text. Look at previous CVPR abstracts to get a feel for style and length.

1. Introduction

A pastiche is a work of art that imitates the style of other works of art. The computer vision and machine learning technologies that exist today allow pastiches to be created digitally. Specifically, this automated process of recomposing an image to consist of styles from other images is called an image style transfer. In this paper, we will discuss the implementation of image style transfer using a deep neural network.

2. Related Work

3. Image Content and Style

approach setup and definitions

3.1. Content Representation and Reconstruction

content representation

3.2. Style Representation and Reconstruction

style representation

4. Image Style Transfer Using Neural Networks

approach methods and implementation

4.1. Methodology

4.2. Neural Algorithm

5. Results

results

6. Conclusion

conclusion