Creative AI

Prof. Atul Shintre[1], Disha Sawant[2], Kesaba Panda[3], Rahul Salunkhe[4]

Faculty, Department of Computer Engineering[1]

Students, Department of Computer Engineering[2,3,4]

Vasantdada Patil College of Engineering and Visual Arts, Mumbai, Maharashtra, India

Abstract: *This paper lays emphasis on two state of the art Artificial intelligence applications. 1) Image colorisation. In this application the user inputs a black and white image and this image is transformed into a colour image. 2) Neural Style Transfer. In this application a user needs to feed in two images. One will be the base image, and other will be the image whose style the user wants to copy on the base image. 3) Using Google's deep dream algorithm, the user can input an image and make a deep dream video of that image.*

Keywords: CreativeAI, Image Colorisation, Neural Style Transfer, Deep Dream.

REFERENCES

[1]. A Neural Algorithm of Artistic Style, Leon A. Gates, Alexander S. Ecker, Matthias Bethge.

[2]. Improving the Neural Algorithm of Artistic Style | Provided by: arXiv.org e-Print Archive | Year: 2016 | by Novak Roman, Nikulin Yaroslav

[3]. An Exploration of Style Transfer Using Deep Neural Networks | Provided by : University of New Mexico | Publisher: UNM Digital Repository

[4]. | Year : 2016 | by Smith Cameron Y

[5]. Convolutional Neural Networks for Image Style Transfer | Provided by: AMS Tesi di Laurea | Publisher : Alma Mater Studiorum - Università di Bologna | Year: 2018 by Battilana Pietro

[6]. A Temporally Coherent Neural Algorithm for Artistic Style Transfer | Provided by : RIT Scholar Works | Year: 2016 by Dushkoff Michael

[7]. Structure Preserving regulariser for Neural Style Transfer | Provided by : RIT Scholar Works | Publisher : RIT Scholar Works | Year : 2019 by Kyada Krushal