

Student corner

3D Selfie? From a single photo why not?- Haya Al-Nuaimi

A new web app is out there, that permit you to upload a colored image and in a flash, a 3D model of your face is displayed. In the University of Nottingham and Kingston a group of computer scientist have developed a technology using a Convolution Neural Network (CNN); it is an aspect of artificial intelligence that uses machine learning to provide computers to capability to learn without being programmed.

The CNN have been trained on a very big dataset of 3D facial models and 2D pictures. On top of that it takes good predictions of the face parts that are not visible in the image. Actually the website is demo of the research paper Large Pose 3D Face Reconstruction from a Single Image via Direct Volumetric CNN Regression and it's going to be presented at the International Conference on Computer Vision (ICCV) 2017 in Vince. One of the research team Aaron Jackson said:" Our CNN uses just a single 2D facial image, and works for arbitrary facial poses (e.g. front or profile images) and facial expressions (e.g. smiling)" this can be helpful in advancing augmented reality, personalize computer games and in online shopping such as trying online accessories like glasses.



Additionally, it can improve the medical sector in simulating the outcomes of plastic surgeries. For people who already bought the new iPhone don't be afraid Aaron Jackson thinks that it's questionable that this new tool can trick the 3D facial scanner which unlock the phone. You can get your 3D face model ready in seconds, try it out in this link: <http://www.cs.nott.ac.uk/~psxasj/3dme/>.