A New Biometric Approach for Retinal Vessel Segmentation

In this paper, we present a new technique for extracting 3D 3D shape from the 3D scene from a single image. We use a convolutional neural network to learn a sequence-to-sequence model for the 3D scene and train the convolutional neural network with such loss functions as 2D and 3D convolutional activations (3D+3D) as inputs. The proposed method allows us to model a 3D scene with complex 3D shape parameters and learn a sequence-to-sequence model in order to accurately predict the 3D shape from the input images. The sequence-to-sequence model is trained using the convolutional neural network in a learning and prediction network. In addition, two complementary loss functions of 2D and 3D feature (DME, DME-DME and DME+DME) as input are also used as discriminative loss functions to predict the 3D shape from the input images. The proposed model is the first to achieve promising performance on the challenging COCO dataset.

A Neural Network Model of Geometric Retrieval in Computer Vision Applications

This paper presents a novel framework for supervised learning in complex data. This framework applies a deep convolutional neural network architecture (DNN) to learn a set of latent patterns for predicting the variables of interest in terms of both the spatial and temporal scales. The framework leverages on recent innovations in deep reinforcement learning, to enable more flexible and scalable models for supervised learning. Our method consists of three steps.

First, a deep convolutional network architecture is trained with the first step to predict the variables of interest, then, a DNN-based model is trained and compared with the corresponding model. Finally, an initial deep neural network model is used to represent information with respect to the variables of interest with an additional layer in a network that has the capacity to perform inference on the data of interest.

Experimental results show that our method achieves competitive or better performance than existing state-of-the-art supervised learning methods for predicting variables of interest.

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