Questions of paper 8 and 9 - 4712099

Fully Convolutional Networks for Semantic Segmentation

1. A fully convolution neural network (FCN) is trained pixel to pixel on semantic segmentation. The steps involved in this process is:

a. Connect the coarse output back to pixels
b. Reinterpreting option a as an equivalent network modification
c. Deconvolution layers for un-sampling and are trained by patch-wise sampling so that the whole image is trained faster and effectively.
d. All the above

Answer d. All the above

Inverse Compositional Spatial Transformer Networks

1. What are the steps involved in the boundary effect of Spatial Transformers on real images?
   a. A green box appears on the original image indicating the cropped region
   b. The cropped image is the input of the Spatial Transformer
   c. The Zoom-in transformation where sampling occurs within the range of the input image after which the zoom out transformation occurs in which the information outside the input image introduces a boundary effect (Spatial Transformer Network) and finally a white dotted line box indicating the wrap from original image occurs
   d. All the above

Answer d. All the above