Supplementary of Image-Driven Shape Texture Synthesis

1 Single Image Depth Estimation

The neural network architecture for the **Single-image depth estimation** application (Section 7.3 in the manuscript) is shown in Fig. 1.
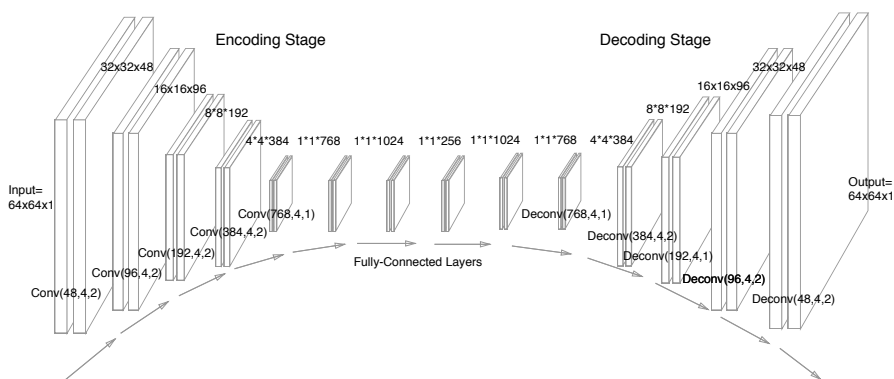

Figure 1: Neural Network Architecture for Single-image Depth Estimation. We describe detailed information of convolution and deconvolution layers. Convolution layers are marked with Conv(channel, kernel size, stride). Deconvolution layers are marked with Deconv(channel, kernel size, stride).

2 Texture Guided Image Retrieval

The architecture of Siamese Network used in **Texture-guided image retrieval** (Section 7.3 in the manuscript) is shown in Fig. 2.

We put additional results for texture-guided image retrieval in Fig. 3 (related to Fig. 26 in the manuscript).
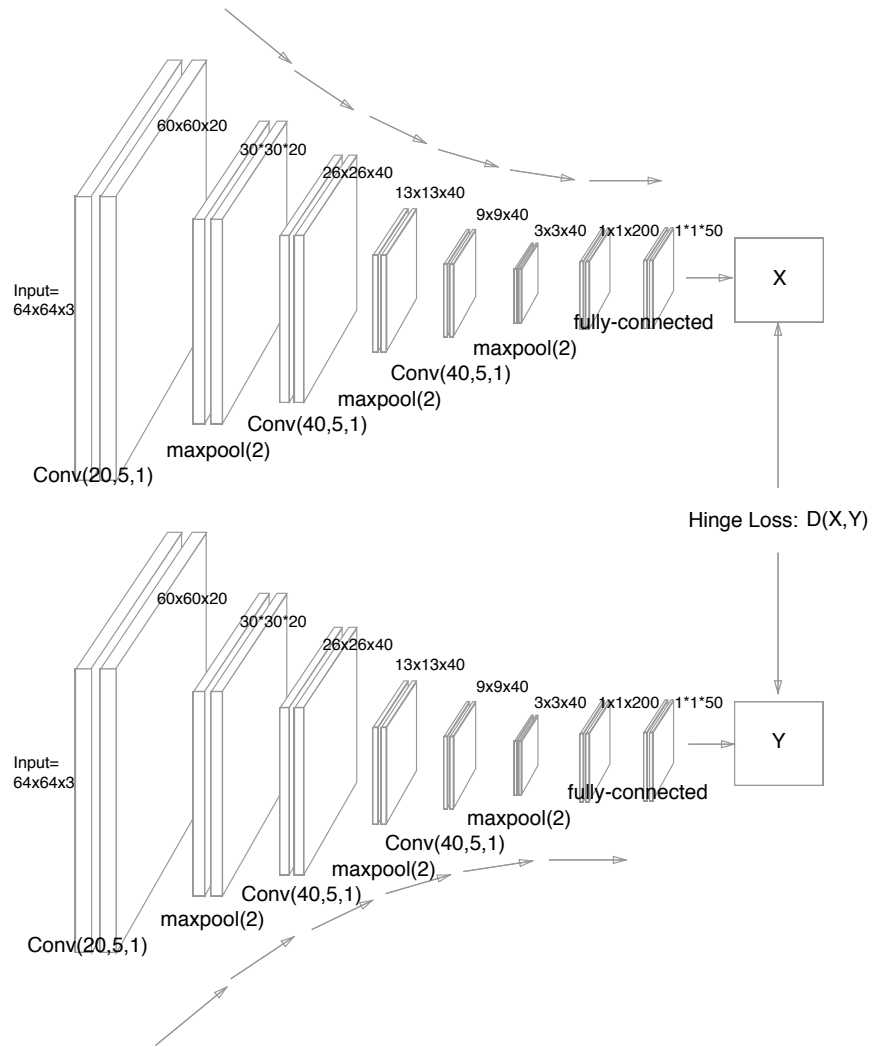
Figure 2: Neural Network Architecture for Texture-guided Image Retrieval. We describe detailed information of convolution and maxpooling layers. Convolution layers are marked with Conv(channel, kernel size, stride). Maxpooling layers are marked with maxpool(stride).

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Figure 3: Examples of texture-guided image retrieval. The first column is the query image. For every query image, we show the images with nearest features, which are computed using HoG (first row) and our approach (second row).