

Exploiting multi-level context information to cost volume can improve the performance of learning-based stereo matching methods. In recent years, 3-D Convolutional Neural Networks (3D CNNs) have been widely used in stereo matching tasks. However, 3D CNNs are sensitive to the input data and require a large amount of training data. In this paper, we propose a novel multi-level context information exploitation method for stereo matching. Our method can improve the performance of learning-based stereo matching methods by exploiting multi-level context information to cost volume. In recent years, 3-D Convolutional Neural Networks (3D CNNs) have been widely used in stereo matching tasks. However, 3D CNNs are sensitive to the input data and require a large amount of training data. In this paper, we propose a novel multi-level context information exploitation method for stereo matching. Our method can improve the performance of learning-based stereo matching methods by exploiting multi-level context information to cost volume.