DpicNet: A Transfer Learning Approach Towards Intel Multiclass Image Classification Dataset

Phumin Walaipatchara
Department of Computer Science
Boston University
Boston, MA 02120
phuminw@bu.edu

Xiaotong Niu
Department of Computer Science
Boston University
Boston, MA 02120
silnuext@bu.edu

Abstract

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1 Introduction

1.1 Transfer Learning

1.2 Xception

1.3 Dataset

The dataset that we are targetting is located at Intel Multi-class Image Classification containing images of natural scenes around the world. Originally, this dataset was used to host a image classification challenge by Intel. There are 25,000 images of size 150 x 150 pixels within 6 categories: buildings, forest, glacier, mountain, sea, and street. They are splitted into roughly 14,000 images for training, 3,000 images for testing, and 7,000 images for prediction. Images will be preprocessed to match the input requirement of the Xception model.

2 Prior Works

3 DpicNet

4 Performance

4.1 Testing Data

4.2 Prediction Data

5 Conclusion

Preprint. Under review.