

Domain Adaptation

1. Office-Home dataset is a domain adaptation dataset, which consists of 65 categories of office depot from four domains (i.e., **A: Art, C:Clipart, P:Product, R: Real-world**). The raw images can be downloaded from <http://hemanthdv.org/OfficeHome-Dataset/>.
The 2048-dim ResNet50 deep learning features of all images can be downloaded from <https://pan.baidu.com/s/1qvcWJCVG8JkZnoM4BVoGg#list/path=%2F>.
2. Conduct experiments in the following three settings (source domain -> target domain):
a) A->R; b) C->R; c) P->R
In X->Y setting, use the deep learning features X_X.csv as source domain features and X_Y.csv as target domain features.
3. Try **deep learning feature + 3 traditional domain adaptation methods (SA, CORAL, KMM)**. Use SVM classifier. For the code of some domain adaptation methods, you can download from <https://github.com/jindongwang/transferlearning/tree/master/code/traditional>.
Some code are written in MatLab. You can convert them to python.
4. Download the latex template and write an experiment report in English. The report should contain the experimental setting, results, observation, and conclusion.