

Project 1

Data Folder

Split into the 2 separate problems, Alberta License Plate(ALP) and Four/Five/Other(FFO)

Within each folder there are:

- the images separated into properly classified folders(no preprocessing)
- ARFF files which were made by using our ARFF builder on the images in those folders.
- Weka model files that can be loaded into Weka and re-evaluated with any test set. These were made by running a 5-fold cross validation on the ARFF file mentioned above with all default options except 15 hidden layers.
- Results text document with the result buffer of the creation of the model.

In the FFO image folders there are some folders named 'Hide' which are hiding some images from being included in the ARFF as our ARFF builder does not search subdirectories and we wanted an even number of instances for each 4,5 and other.

ARFF Builder

The folder 'licensedetect' is an eclipse project. The ARFF builder requires Fiji/ImageJ's java library(ij-1.48q.jar) which is included in the project but may need relinking. It also requires Weka's java libraries. Fiji can be downloaded from <http://fiji.sc>

When you run the program a window will appear asking what problem you would like to make an ARFF for. Selecting ALP/nonALP you will then be asked to pick a folder containing images with Alberta License plates and then a folder containing images without Alberta plates. You will then be asked to save the ARFF file. Selecting Four/Five/Other you will be asked to select 3 folders in the same fashion and then save the ARFF file.

This program treats every file in a folder that it is given as an image except directories, which it skips as it does not search subdirectories.