Instructions

March 31, 2008

The software included in this package can be used to:

- Read data of results of k classifiers over N data sets in CSV format. The data can correspond to accuracy, AUC or any other performance measure.

- Compute the rankings through the Friedman procedure of k classifiers over N data sets.

- Compute the Friedman and Iman-Davenport Statistics corresponding to the input data.

- Show the tables with the set of hypotheses, unadjusted p-values for each comparison and adjusted level of significance for Bonferroni-Dunn, Holm, Hochberg and Hommel procedures: $1 \times n$ comparison

- Show the table with adjusted p-values for the procedures $1 \times n$ mentioned in the previous item.

- Show the tables with the set of hypotheses, unadjusted p-values for each comparison and adjusted level of significance for Nemenyi, Holm, Shaffer's static and Bergmann-Hommel's dynamic procedures: $n \times n$ comparison

- Show the table with adjusted p-values for the procedures $n \times n$ mentioned in the previous item.

- Give a report detailing the rejected hypotheses considering the levels of significance $\alpha = 0.05$ and $\alpha = 0.10$.

The program is written in JAVA, so an installed JVM in the computer is needed in order to run it. To do this, execute:

java Friedman $< data\_file >$

An example of data is included in the package. The output is given in LaTeX format on standard output. We recommend to redirect the output to a file in the following manner:

java Friedman data.csv > output.tex