**Towards Mining Trapezoidal Data Streams**

**Experiment Details and Code Repository**

There are main 7 files of code to implement the experiments designed in this paper:

1. STSD\_I\_II\_experiment1.m to evaluate the average number of errors by STSD, STSD-I and STSD-II algorithms on the six UCI data sets listed in Table 1 respectively.

2. STSD\_I\_II\_experiment2.m to evaluate the performance of the STSD, STSD-I and STSD-II in the online process on the six UCI data sets listed in Table 1 respectively.

3. STSD\_I\_II\_experiment3.m to evaluate the classification results under different portions of selected features (the effect of parameter B) by STSD, STSD-I and STSD-II on the six UCI data sets listed in Table 1 respectively.

4. STSDI\_all\_random\_perceptron\_experiment1.m to evaluate the average test errors made by the four algorithms, STSD-I, STSDI-all, STSDI-ran and STSDI-per, on the six UCI data sets listed in Table 1 w.r.t. different fraction of selected features respectively.

5. STSDI\_all\_random\_perceptron\_experiment2.m to evaluate the performance of the four algorithms, STSD-I, STSDI-all, STSDI-ran and STSDI-per, under the online learning settings on the six UCI data sets listed in Table 1 respectively.

6. STSDI\_all\_random\_perceptron\_experiment3.m to evaluate the classification accuracy under different fractions of selected features, i.e. the effect of parameter B by STSD-I, STSDI-ran and STSDI-per algorithm on the six data sets listed in Table 1 respectively.

7. STSDI\_all\_random\_perceptron\_bigdata.m to evaluate the average error rate by STSD-I, STSDI-all, STSDI-ran and STSDI-per on the three big data sets listed in Table 4 respectively.

The source codes are abailable.

Click here to download.