

CENG 492 WEEKLY REPORT

This week we have tested the parallelized methods of Instances and Utils classes; however, the results were disappointing. For all methods, the parallel versions took much more time than the non-parallel ones. So, instead of sticking to the approach we explained in our final design report (in which we decided to do parallelization on lower level classes & methods, assuming these would affect the higher level algorithms), we decided to parallelize the algorithms with much higher complexity, otherwise the communication cost would be much higher than the gain of parallelization. For this reasons, we will start to parallelize the matrix decomposition algorithms (with computational complexities $O(n^3)$, which are in weka.core.matrix packages, and which we didn't explain in our final design report) for next week. We have made some research on these decompositions and ideas on parallelizing them, and based on these, we expect to get better results on parallelization of these algorithms.

Also for this week, we tried to start a scheduler our own dual-core machines in order to test the parallel Weka on them; however we had some problems related to it. Also, we installed the Subclipse plugin on Eclipse on the nar machine (thanks to Serdar), and it much simplified the SVN commit & checkout operations by running SVN behind Eclipse GUI (rather than running SVN from the console).