Robust self learning

This self learning method is a variant of expectation maximization method.

- Expectation Step:
  - In the expectation step we compute the WX and WZ matrices which are used to project X and Z into the shared space. Wx and WZ are computed based on the dictionary D.
- Maximization Step:
  - In the maximization step we update the dictionary D based on the matrices WX and WY.
  - Dictionary D is computed using a simple nearest neighbor algorithm. For each row in X*WX we find its nearest neighbor in Y*WY and make the corresponding entries = 1 in the dictionary D.
- Joining initialization and Robust self learning:
  - It was observed that just using both of them did not work. Some other Improvements such as Cross-domain Similarity Local Scaling (CSLS), symmetric re weighting are required to improve the solution.
- Applying CSLS retrieval and symmetric reweighting:
  - We observed that by making above improvements the results were better than previous but there are some shortcomings which need to be exploited.