

## Speaker Recognition Project

I will upload recordings of the utterances of the phrase “My voice is my passport. Verify me.” This is from the movie “Sneakers.”

For each subject, process files 1,2 and 3 to form a database or training file for that subject. These should be saved individually in .mat files.

For each of the remaining files:

1. Process them
2. Compare them to each database matrix to obtain a score. You should have one such database matrix for each subject. I suggest strongly that you record the score for each comparison in an Excel (or other) spreadsheet.
3. Your identification of the “unknown” file will be whichever score is smallest. You can also record this choice in the spreadsheet.

Write a brief report describing what you have done as well as any particular challenges you encountered in the projects. Report the overall accuracy of the method. Examine the spreadsheet and see if there are any patterns. Do certain people seem to be confused for each other or is it random? If some people are confused with each other, do their voices sound similar to you? Report any other patterns you might observe.

For the graduate students: Suppose you had a recording of somebody that is not in your collection of databases, i.e., a new person. How might you be able to tell that this person is not in the database? Think about it and describe and test your ideas.