

### Lab # 03: Blind Source Separation

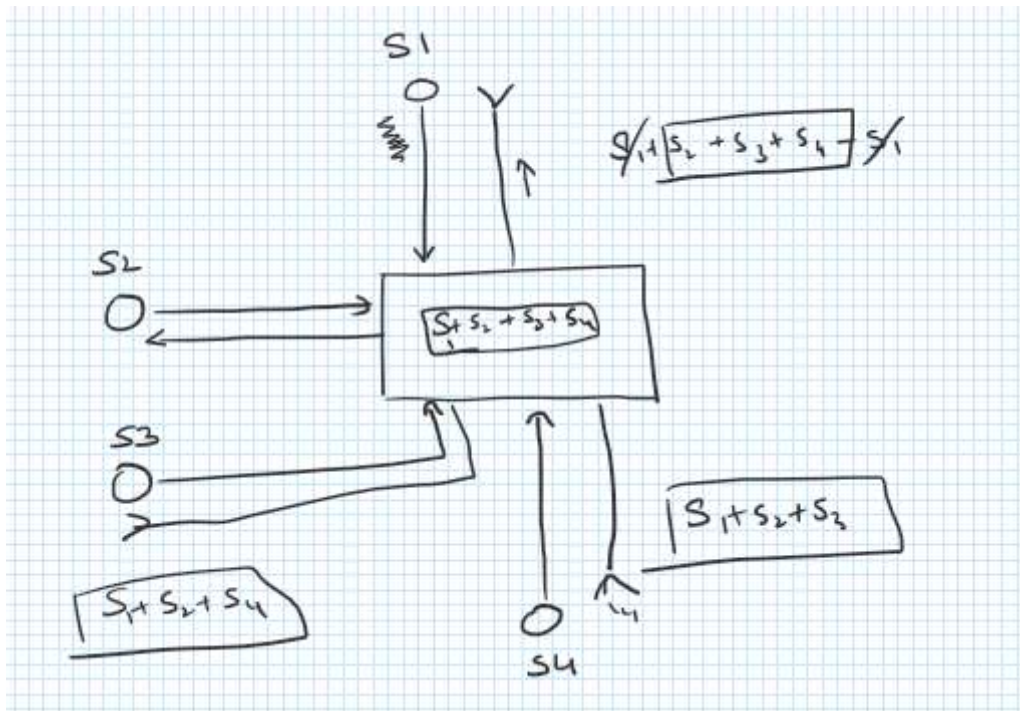
#### Objective:

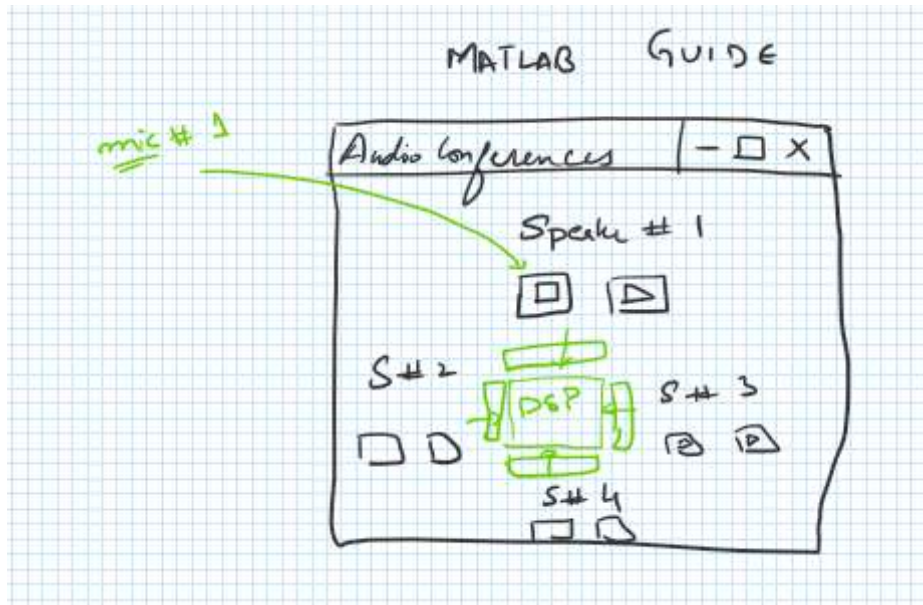
In this lab you will work on the problem of removing an echo from a recording of a speech signal.

#### LAB TASK:

Design a MATLAB code to build an audio conference system. Just like in conference call a speaker can listen all other members voice but not his own.

In this task, you have to record audio of four member and apply all these four audios on each speaker one by one assuring that specific speaker cannot listen his own voice but can listen other three speech signal.





### **Research Work to be done individually**

The work that you have done in this lab is covered under the following topics:

- Singular Value Decomposition
- Blind Source Separation

After you have done this lab, you are to research on these two topics and write a comprehensive report of what you have understood. It will be great if you can find some MATLAB implementations to show your understanding of these two algorithms.