

Project 2: Mini-Lectures on Finding Linear Discriminant Functions

In the lecture you learned the Perceptron algorithms for obtaining the weight vector in a linear discriminant function. In this assignment, you will learn additional algorithms for finding linear discriminant functions on your own and then teach it to the whole class. Work with your group members and prepare your teaching materials based on the textbook (DHS) and/or any online materials.

Each group will be given around 15 minutes to teach the material during next week's lab (April 18). Upload the slides to Canvas by April 18 noon.

| Topic | Time: April 18 | Group Members |
|-------------------------------------|----------------|-----------------------------------|
| 1. Relaxation Procedures | 3:15-3:30 | Tre, Kai, Colt |
| 2. Minimum Squared_Error Procedures | 3:35-3:50 | Nicholas, Alam, Isabella, Shalini |
| 3. Wildrow-Hoff (LMS) Procedure | 3:55-4:10 | Dylan, Nathan, Jordan, Ronit |
| 4. The Ho-Kashyap Procedures | 4:15-4:30 | Jonathan, Nockolas, Henry, Lara |
| 5. Linear Programming Algorithm | 4:35-4:50 | Bianca, Juan, Sebastian |