

## **EE 542 Four Homework Assignments, Fall 2017 Prof. Hwang**

Homework must be done individually and independently. Homework Solutions should be typed, submit hardcopy on the due day at the beginning of class. For backup, you can submit the on-line copy to TA ([yueshi@usc.edu](mailto:yueshi@usc.edu)) on due day.

You should work on the assigned problems immediately after each lecture. Copying homework from your fellow classmate or from solution handouts in previous years will result in zero credit for both loaner and borrower.

### **EE 542 HW Set #1 , Due Sept.18, 2017 (4%)**

**Chapter 1: Prob. 1.4, 1.9, 1.12, (week 1)**

**Chapter 3: Prob. 3.14, 3.16, 3.18 (week 3)**

**Chapter 4: Prob. 4.1, 4.2, 4.11, 4.12 (week 2)**

Note: Lectures 1~7 are relevant to HW #1. Several problems require open research by digging out updated information from Wikipedia or the Internet.

### **EE 542 Home Work Set #2, Due Oct.9, 2017, (6%)**

**Chapter 2: Prob. 2.4, Prob.2.5, Prob.2.13 (Lectures 10 and 11)**

**Chapter 5: Prob. 5.1, Prob.5.5, Prob.5.7 (Lectures 12, 13)**

**Chapter 8: Prob. 8.5, Prob.8.8, Prob. 8.11, Prob. 8.14 (Lectures 8, 9)**

Note: You should work on those problems in Chapter 8 immediately. These problems require Hadoop/Spark programming effort on the AWS cloud.

### **EE 542 Home Work Set #3, due Nov.6, 2017, (4%)**

**Chapter 6: Prob. 6.2, Prob. 6.5, Prob. 6.7, Prob.6.10, (Lectures 17, 18)**

**Chapter 7: Prob. 7.3, Prob.7.4, Prob. 7.8, Prob. 7.9, (Lectures 19, 20)**

Note: Finish the 8 problems in Chapters 6 and 7 within October.

### **EE 542 Home Work Set #4, due Nov.15, 2017, (6%)**

**Chapter 9: Prob. 9.3, Prob.9.4, Prob.9.5, (Lectures 21 ~ 23)**

**Chapter 10: Prob.10.2, Prob.10.6, Prob.10.8, (Lectures 8, 9, 22, 23)**

Note: These problems require Hadoop, Spark, TensorFlow programming effort on AWS cloud. You should get started sooner to finish before the due day.