

Indian Institute of Science

Neural Networks and Learning Systems-I

Instructor: Shayan Srinivasa Garani

Home Work #3, Fall 2020

Late submission policy: Points scored = Correct points scored $\times e^{-d}$, $d = \#$ days late

Assigned date: Dec. 26th, 2020

Due date: Jan. 8th, 2021, 11:59 pm

PROBLEM 1: Solve problems 5.5 and 5.6 from Haykin's book. (30 pts.)

PROBLEM 2: Solve problem 6.17 from Haykin's book using both support vector machines and radial basis functions. Comment on the complexity of the algorithms. (30 pts.)

PROBLEM 3: Solve problem 6.25 from Haykin's book. You need to show all the results carefully. Attach the software code in an Appendix. (40 pts.)

NOTE: When I refer to Haykin's book, it is the 3rd edition, paper bound. You must submit your assignment in one pdf via Teams.