

# Homework 5: Applications of Artificial Neural Networks

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## 1 Description

50 pts total

(+5pts automatic extra credit for turning in the completed assignment - HAPPY THANKSGIVING!!!)

Consider a field you are interested in, and choose one scientific or engineering paper to read which demonstrates an application of neural network models, and the process of modeling and data analysis. The paper you read must be longer than two standard pages.

1. (10 pts) Read the paper
2. (10 pts) Give a brief explanation of neural networks in your words (you may use extra references of your choosing, you are not limited to course materials)
3. (10 pts) Give a brief synopsis of the paper in a few sentences
4. (15 pts) Discuss briefly how neural networks were applied, and explain the steps of modeling and data analysis which would have been used by the authors to obtain their final results
5. (5 pts) Email the pdf document or html link to the document you choose to the professor and TAs

The whole document you create must be less than 2 pages written and more than one page written (figures may be added which increase the overall length of the document, but if there were no figures, the length should be no less than one page of double-spaced sentences - approximately 300 words/page).

## 2 Format

-all pages should be numbered

-images should be of appropriate format

### **title page**

- Your name
- Date/quarter
- Course #
- Title

### **body**

- As described above in description section

### **references/bibliography**

(should be written in standard format)

- Any quotations should be referenced
- The paper you are reviewing
- Any textbook material you may want to refer the reader to