

## CS4811 Homework 1 Interim Report Guidelines (Jan 22, 2014)

The interim report for the “Artificial Neural Networks” assignment should include the following.

- Provide a printout of your neural network program with a clear explanation of what works so far. Present the working parts with output examples.

The program should be fully commented. Include your name, class, and assignment title at the top.

- Make sure to answer the following questions:
  - Did you implement the basic framework of a feed-forward multi-layer neural network?
  - Did you test whether feed-forward and back-propagation work? Which data sets did you use?
  - Did you implement or think about how to change the number of layers or nodes?
  - Did you prepare the data points for the training examples for the XOR function and the  $x^2$  function? Did you plan how to input those points?
  - Did you implement or think about how to graph the final neural network?
- Present a discussion of problems or obstacles encountered so far and how you dealt with them.
- Provide a daily schedule of what you plan to do to finish your assignment. The dates should cover: January 27 through February 3rd.

Please submit a single pdf file for the report. You can combine or split pdf files using ghostscript on Linux:

The following is an example to extract pages 22 through 36 from the file 100p-inputfile.pdf. The extracted file will be stored in: outfile-p22-p36.pdf

```
gs -sDEVICE=pdfwrite -dNOPAUSE -dBATCH -dSAFER \  
  -dFirstPage=22 -dLastPage=36 \  
  -sOutputFile=outfile-p22-p36.pdf 100p-inputfile.pdf
```

The following is an example for joining files part1.pdf, part2.pdf, and part3.pdf into final-report.pdf.

```
gs -sDEVICE=pdfwrite -dNOPAUSE -dBATCH \  
  -sOutputFile=final-report.pdf \  
  part1.pdf part2.pdf part3.pdf
```