CE888 Assignment 1

January 21, 2018

1 The Assignment

The main aim of the two assignments is to analyse data and present that analysis both on-line and as if it was written for publication in an academic journal. For Assignment 1 you will have to perform the **first** task from the list of every project. Ask the module supervisor if you do not know which project you are supposed to do - it should be one of the following:

- RL and Interpretability
- Evolutionary Strategies for Domain Adaptation
- Genetic Programming/Auto-ML for One-Shot Learning
- Continual Learning using auto-encoders

See the module's website for more details, but you have to complete the **first** task for your respective project and deliver a deliver a report that contains the following:

1. Abstract: provide a short description of your work and try to convince the reader that your paper is worth reading!
2. Introduction: explain the purpose of your work and motivates it - why is what you are doing important?
3. Background: description of similar efforts done in the past. Discuss any previous work on the topics and go beyond the provided references.
4. Methodology: describe what your analysis will achieve and what methods you will use to achieve your goals. Describe the dataset(s) you are going to use and how the data was collected (or generated).
5. Experiments: outline any experiments/analysis you will perform and explain the rationale behind them/it. If there are explicit results from other studies, list them here.
6. Discussion: explain how you will evaluate the results and how you will gain insights from your experiments.
7. Conclusion: any concluding remarks you might have.
8. Plan: Provide a breakdown of the work needed to complete the project and how long it will take. Use dates or a gantt chart. Be realistic about what you can achieve.

The first report will be 5 pages of IEEE formatted journal article + 1 page of a plan.

2 Deliverables

1. Report in Microsoft Word or PDF format, adhering to the IEEE Journal standard.
2. A link to a github project that contains the prototype code and the data you are going to use - it should be the same as the one you used for your labs. If the data used is massive, provide a link to it instead in your github README.md.
3. Complete project tree containing all files used in the project - basically a .zip file of your github project.