

Weekly Log
Week commencing 14/01/2013

30/01 Notes

Points of note taken from previous meeting including talking points for meeting on Thursday and completed tasks since the last meeting:

- Research into prediction and time series has begun, starting with literature obtained last week.
- Need to ask supervisor for a recommendation on literature on time series analysis.
- Advice from supervisor taken, with slow progress on research on time series I began to write my PPR. Introduction, Gantt chart and aims set out in writing.
- Finalized three questions I aim to answer, two classification and one time series/prediction.
- Attended a meeting and sent out notes on inter-team analysis criteria. Awaiting responses. If none are received I will continue with the areas I have established.
- Need to finalize methods on how I am to answer those questions, ie, which algorithms to use
- Ask for advice on literature or process of developing a data mart / data cube for the time series analysis.
- Data for daily work record simplified.

31/01 Notes

Notes and actions derived from meeting with supervisor:

- Discussed working title.
- Discussed my research progress. Explained time series and the approach I should take from a data mining perspective as what I have been reading is mostly from a mathematical perspective. Research Windowing and lag.
- Discussed PPR progress and the aims and objectives. Was informed that producing three analysis models would probably be too much and was best to either prioritise my work thoroughly and complete what I can or focus on one analysis and have a complete project. Decided that I would complete all three but program the time series myself but use WEKA or another library for the other two analyses. Suggested linear regression and neural network for the work load analysis and compare the results.
- Asked for advise on housing the data and what the advantages I would have from having a data mart. If I was creating an application that could be used by someone else creating a data mart the could be access would be advantageous. Will look into obtaining Windows SQL

server. Though I was told that OLAP operations will not assist too much with what I propose to do and would probably find reading direct from the CSV files would be easier to programme.

- Warned not to bite off more than I can chew.