

The *forth* Master of Computing and innovation Group Project weekly meeting will be held in **Room 464** at **3.00pm on Tuesday 27 Mar 2018**.

Meeting minutes on 27th Mar

Attendance: Zheng Xu, Junjie Guo

1 Apologies

None

2 Progress

Using decision tree C4.5 to deal with approximate 10 thousand inputs, then generate a initially detection model. However, the time spending is more than 40 minutes.

2.1 Findings

1. Question1: A few parameters are useless, we may filter out the frequently used parameters to reduce the time to generate models.

Answer: Should use all dataset without filtering them manually. It may cost 13 minutes approximately.

2. Question 2: In this implementation, it is assumed that a pattern vector with fewer than 10 unique values is discrete, and will be treated as such. Other vectors will be treated as continuous.

Answer: We could define the range to solve the problem. Modify the code implementing a different function.

2.2 About the next steps

1. Question 1: Find out the method to utilize the model generated by training data to detect attacks in testing data.

Answer: Implementing the training data to generate a model through memory, then it could be used for detection. XML could be used for solving this problem.

2. Question 2: Searching information decision tree pruning algorithm to solve the overfitting issue.

Answer: Search information via Internet.

2.3 Learning steps

1. learn/understand the project
2. Acquire the necessary skills
3. Get familiar with the dataset KDD
4. Train the model by implementing the algorithm

Note: Next meeting to be held on 3 April 2018.