

CAE Research Project Meeting Minutes

6/7/2021

- Participants
 - Dr. Waleed Farag (PI)
 - Dr. Soundararajan Ezekiel (Co-PI)
 - Dr. Xin-Wen Wu (Co-PI)
 - Cassandra Lefever
 - Maria Balega
 - Malcolm Holden
 - Alex Robbins
- Meeting started at 5:00 p.m.
- Unanimously approved minutes for meeting on June 2, 2021
- Main Points
 - Discussed:
 - Alex –
 - Rewrote DCNN/DNN MatLab code, organized files on Titan
 - Alicia and Dr. Ezekiel -
 - Worked with Adam on SVM and cyclic learning in Python, running into errors with the large dataset, will work on debugging
 - Maria –
 - Worked with one of the files for the IoT23 dataset, Mirai 34, after running the file through XGBoost achieved an accuracy score close to 100% after trial-and-error with parameters, need to verify this result
 - Also tried using the Mirai 35 file, file is very large and causing some issues
 - Malcolm –
 - Met with Alicia, Alicia was able to troubleshoot her code
 - Cassie –
 - GenCyber folder is up-to-date
 - Malcolm will take minutes for future meetings
 - Tasks:
 - Alex –
 - Meet with Malcom and Maria, discuss progress and the current state of the project, transitioning leadership role primarily to Maria for now
 - Work with Dr. Ezekiel on DCNN/DNN code
 - Maria –
 - Break up Mirai 35 file into 4 or 5 smaller files to put into MatLab, change the ratio of benign : malicious data from 8 : 2 to 9 : 1
 - Document parameters, results, outcome, timing, memory used, etc.
 - Malcolm –
 - Meet with Alicia to learn SVM
 - Meet with Alex to discuss state of DCNN/DNN

- Adjournment at 5:50 p.m.
- Next meeting will be held on Monday June 14th at 5 p.m. via Dr. Farag's Zoom room