

CAE Research Project Meeting Minutes

9/9/2021

- Participants
 - Dr. Waleed Farag (PI)
 - Dr. Soundararajan Ezekiel (Co-PI)
 - Dr. Xinwen Wu
 - Maria Balega
 - Zaryn Good
 - Franklin May
 - Ryan Gress
 - Cassie Lefever
- Meeting started at 3:55 p.m.
- Unanimously approved minutes for meeting on September 2, 2021
- Main Points
 - Discussed:
 - Maria & Cassie
 - Ran into issues combining and splitting the IoT23 captures, getting memory error
 - Working on XGBoost abstract
 - Zaryn
 - Ran IoT23 data converted to images through DCNN, got 60-70% accuracy
 - Franklin
 - Added confusion matrix into XGBoost and SVM algorithms
 - Rewrote preprocessing for KDD dataset
 - Working on DCNN abstract
 - Ryan
 - Found published papers to compare our results with
 - Looking into TON-IoT dataset
 - Tasks:
 - Maria & Cassie
 - Continue preprocessing IoT23 dataset similar to the published paper and run it in XGBoost
 - Try combining as many csv as possible to avoid memory error, try using MATLAB to preprocess to determine if it's a language or hardware issue
 - Alicia
 - Try running images in DBN
 - Work on synthetic dataset using IoT23 data
 - Zaryn
 - Work on running the full IoT23 through various DCNN, record all results
 - Franklin
 - Continue preprocessing KDD and run it in XGBoost and SVM

- Ryan
 - Work with Maria and Cassie to see if the TON-IoT dataset can work with XGBoost
 - Work with Zaryn to see if TON-IoT dataset can work with DCNN
- General tasks:
 - Work on abstracts and continue revising them
 - Franklin is working on DCNN abstract
 - Maria is working on XGBoost abstract
- Adjournment at 4:55 p.m.
- Next meeting will be held on Thursday September 16 at 3:15 p.m. via Dr. Farag's Zoom room