CAE Research Project Meeting Minutes

2/2/2022

- Participants
 - o Dr. Waleed Farag (PI)
 - o Dr. Soundararajan Ezekiel (Co-PI)
 - o Dr. Xin-Wen Wu
 - o Zaryn Good
 - o Ryan Gress
 - o Alicia Deak
 - o Maria Balega
 - o Franklin May
- Meeting started at 11:30 am.
- Unanimously approved minutes for meeting on January 26, 2022
- Main Points
 - o Discussed:
 - ALL
 - Use the same machine for each dataset so that execution time is comparable
 - Share results before meetings so feedback can be provided
 - Division of three different IEEE papers
 - Alicia and Maria: XGBoost and IoT23 with comparison to SVM/DCNN
 - o Ryan: TON-IoT with comparison to different algorithms
 - o Franklin: KDD dataset with comparison to different algorithms
 - Share incremental progress of papers
 - Maria
 - Ran IoT23 20% sample through SVM, achieved accuracy up to 96%
 - Alicia
 - Ran IoT23 using XGBoost, balanced accuracy 75%, accuracy 99%
 - Zaryn
 - Met with everyone leading a paper to discuss the machine they are running on, working on DCNN for each dataset
 - Franklin
 - Working on paper, SVM and XGBoost results are finalized
 - Ryan
 - Using a subset of ToN-IoT dataset, accuracies are similar to a published paper
 - o Tasks:
 - Maria
 - Take 5% sample from each classification and run SVM
 - Alicia
 - Run IoT23 XGBoost using 4 classifications to be consistent with SVM, visualize results

- Zaryn
 - Continue running DCNN for KDD, IoT23, and ToN-IoT
- Franklin
 - Continue working on paper
- Ryan
 - Look into why XGBoost isn't working as good for ToN-IoT23 dataset
- Adjournment at 12:30 pm.
- Next meeting will be held on Wednesday February 9 at 11:30 am.