CAE Research Project Meeting Minutes

1/19/2022

- Participants
  - Dr. Waleed Farag (PI)
  - Dr. Soundararajan Ezekiel (Co-PI)
  - Dr. Xin-Wen Wu
  - Zaryn Good
  - Ryan Gress
  - Alicia Deak
  - Maria Balega
  - Franklin May
- Meeting started at 11:30 am.
- Unanimously approved minutes for meeting on January 12, 2022
- Main Points
  - Discussed:
    - ALL
      - Division of three different IEEE papers
        - Alicia and Maria: XGBoost and IoT23 with comparison to SVM/DCNN
        - Ryan: TON-IoT with comparison to different algorithms
        - Franklin: KDD dataset with comparison to different algorithms
    - Maria & Alicia
      - Ran IoT-23 sample through SVM, achieved accuracy of 95.9%
      - Preprocessed IoT-23 data again due to technical difficulties
    - Zaryn
      - Converted ToN-IoT into images and started running in DCNN
    - Franklin
      - Working on writeup for KDD, created graphs
    - Ryan
      - Ran benchmark dataset in SVM and algorithm works fine; isolated datasets for ToN-IoT and still getting error
  - Tasks:
    - Maria
      - Continue running IoT-23 through SVM, keep increasing sample size of data
    - Alicia
      - Rerun XGBoost with new IoT-23 preprocessing to compare results
      - Send Zaryn IoT-23 split data
    - Zaryn
      - Convert IoT-23 into images and run through DCNN, continue running ToN-IoT through DCNN
    - Franklin
      - Continue writeup for KDD

- Ryan
  - Look into why SVM is giving the same results for ToN-IoT; go back to source of data
- Adjournment at 12:25 pm.
- Next meeting will be held on Wednesday January 26 at 11:30 am.