CAE Research Project Meeting Minutes
07-05-2023

- Participants
  - Dr. Soundararajan Ezekiel
  - Dr. Xinwen Wu
  - Jared Giesen
  - Kurtis Johnson
  - Samuel Rocco
  - Nathan Metzger
  - Shari Hoch
- Meeting started at 11:00 am
- Unanimously approved minutes for meeting on June 28th, 2023

Main Points:
- **Progress report**
  - Drew –
    - Working on IoT test bed paper
  - Kurtis –
    - Still running DCNN on Titan for Maria
    - Converted all datasets to images for use in training DCNN
    - Completed DCNN training and testing on TON and KDD datasets
    - Currently running DCNN on 4080 machine on test bed data sets
  - Sam –
    - Running DCNN on mean TON data set
    - Working on t-SNE for IoT23 dataset
  - Jared –
    - Primarily working on ARMZTA
  - Nathan –
    - Working on user account issues for all machines to enable remote access
- **Discussion points**
  - Need to fix Titan to run all four graphics cards
  - Learn and implement PCA to recast datasets
  - Look at YOLO algorithm and consider implementing if time allows
  - For the next meeting, Dr. Wu teaches around 11 am and Sam, Nate, and Jared have a uSoar meeting 10:00 – 11:30 am on Wednesday. Consider setting the meeting for Tuesday or Thursday.
- **Tasks:**
  - Drew: Finalize the IoT paper
  - Kurtis:
    - Finish running DCNN on datasets
  - Sam:
    - Fix t-SNE for IoT23 data set
  - Jared:
  - Nathan:
    - Reconfigure PCA data visualization

Adjournment at 11:30 pm
Next meeting will be held on Thursday, July 13th at 11:00am