

CAE Research Project Meeting Minutes

08-03-2023

- **Participants**
 - Dr. Waleed Farag (PI)
 - Dr. Soundararajan Ezekiel
 - Dr. Xinwen Wu
 - Jared Giesen
 - Kurtis Johnson
 - Samuel Rocco
 - Nathan Metzger
- Meeting started at 11:00 am
- Unanimously approved minutes for meeting on July 27th, 2023

Main Points:

- **Progress report**
 - Drew –
 - Working with Dr. Ezekiel on revising testbed paper
 - Kurtis –
 - Started preprocessing IoT23 dataset
 - Helped Maria with fixing a figure on paper
 - Put all ML results and scripts on OneDrive, USB
 - Sam –
 - Finished documentation of data sets and preprocessing
 - Looking into overall IoT documentation to update with new work
 - Jared –
 - No updates
 - Nathan –
 - Completed DCNN fusion with SVM on all datasets
- **Discussion points**
 - Concerns with data captures being too simple, investigate getting better captures
 - Drew's paper focuses on building the IoT test bed to generate data but should include algorithm results to determine its utility
 - Need to include IoT23 as one of the datasets to compare to earlier work/testbed performance
 - Fusion results are not significantly better than original DCNN results
 - Results should be included in report but not a published paper
 - Dr. Ezekiel will work with Sam on overall documentation of the latest work including datasets, visualization, algorithms, results, etc.
- **Tasks:**
 - Drew: Finalize the IoT paper
 - Kurtis:
 - Work with Maria to finalize TON results for paper
 - Run DCNN on KDD for Maria
 - Finish IoT23 preprocessing and run on all algorithms
 - If time allows work on wavelet scattering; contact Adam for help
 - Sam:
 - Find and update overall IoT documentation file containing methods and tools
 - Jared:

- Nathan:
 - Write short documentation on fusion methodology and results
 - Check Titan hard drives, extra drives and make sure they are mounted correctly

Adjournment at 11:50 am

Next meeting will be held on Thursday, August 10th at 11:00am