

CAE Research Project Meeting Minutes

07-27-2023

- **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 20th, 2023

Main Points:

- **Progress report**
 - Drew –
 - Shared new version of IoT Testbed paper, waiting on feedback
 - Kurtis –
 - Retested DCNN on TON dataset for Maria to get full metrics
 - Working on wavelet scattering for dataset visualization
 - Sam –
 - Finished fixing Maria's KDD figure
 - Working on soft copies of Dr. Ezekiel's work plans
 - Working on dataset and preprocessing documentation
 - Jared –
 - Working on soft copies of Dr. Ezekiel's work plans
 - Recreated Maria's KDD figure in Excel
 - Nathan –
 - Extracted image features and completed DCNN fusion for data capture 5-30
 - Ran SVM on fused features
- **Discussion points**
 - Document all work and methods in one file to allow for quick reference/ease-of-onboarding new team members
 - Update everyone when revised paper or results are available with location in OneDrive
 - Put all results and documentation on the shared OneDrive, not locally
 - K-means clustering helps explain why our data captures result in consistently high results on all algorithms
 - May want to modify data capture process later to improve variability of data
- **Tasks:**
 - Drew: Finalize the IoT paper
 - Kurtis:
 - Reach out to Maria for raw IoT23 dataset and preprocessing scripts
 - Work on wavelet scattering for all datasets
 - Organize OneDrive and copy all results to USB drive
 - Sam:
 - Finish soft copies and dataset documentation
 - Find and update overall IoT documentation file containing methods and tools
 - Jared:

- Nathan:
 - Continue performing DCNN fusion on all datasets

Adjournment at 12:20 pm

Next meeting will be held on Thursday, August 3rd at 11:00am