

CAE Research Project Meeting Minutes

08-10-2023

- **Participants**
 - Dr. Waleed Farag (PI)
 - Dr. Soundararajan Ezekiel
 - Dr. Xinwen Wu
 - Jared Giesen
 - Kurtis Johnson
 - Samuel Rocco
 - Nathan Metzger (absent)
- Meeting started at 11:00 am
- Unanimously approved minutes for meeting on August 3rd, 2023

Main Points:

- **Progress report**
 - Drew –
 - Planning to meet with Dr. Ezekiel to review testbed paper this weekend
 - Kurtis –
 - Preprocessed IoT23
 - Completed running XGBoost, SVM, DCNN on IoT23 with different parameters
 - Completed DCNN training/testing on KDD for Maria
 - Sam –
 - Working on overall IoT project documentation
 - Working on dataset documentation
 - Jared –
 - No updates
 - Nathan –
 - Resolved issue with Epimetheus (4080 machine) freezing/crashing
 - Resolved issue with Titan overheating
- **Discussion points**
 - Drew pointed out previous studies on identifying malicious network traffic
 - Most studies point to high accuracy when classifying packets as malicious/benign
 - Received and setup new Lambda Vector machine on Wednesday, Aug 9
- **Tasks:**
 - Everyone:
 - Keep 305 and 306 clean for visitors
 - Drew:
 - Finalize the IoT paper
 - Kurtis:
 - Work on wavelet scattering; contact Adam for help
 - Document findings, algorithms, code
 - Work with Sam, Nate, Jared to document individual work
 - Review Maria's paper, specifically Section 8 results
 - Compare her results to new results and document
 - Sam:
 - Update overall IoT documentation file containing methods and tools
 - Document individual work to add to overall documentation

- Finish dataset documentation
- Jared:
 - Document previous work to add to overall documentation
- Nathan:
 - Write short documentation on fusion methodology and results
 - Check Titan hard drives, extra drives and make sure they are mounted correctly
 - Visualize IoT23 with K-means clustering

Adjournment at 11:30 am

Next meeting will be held on Wednesday, August 16th at 1:00 pm