CAE Research Project Meeting Minutes
08-16-2023

- Participants
  - Dr. Waleed Farag (PI)
  - Dr. Soundararajan Ezekiel
  - Dr. Xinwen Wu
  - Jared Giesen (absent, excused)
  - Kurtis Johnson
  - Samuel Rocco
  - Nathan Metzger

- Meeting started at 1:00 pm
- Unanimously approved minutes for meeting on August 10th, 2023

Main Points:

- **Progress report**
  - All—
    - Met with Dr. Ezekiel to review work and plan final steps
  - Drew—
    - Met with Dr. Ezekiel to revise testbed paper
    - Met with team to catch up on summer work
      - Discussed how to better document work
      - Set up shared Kanban board for better organization going forward
  - Kurtis—
    - Tested wavelet scattering on MATLAB sample code
  - Sam—
    - Working on overall IoT documentation with Sam
  - Jared—
    - No updates
  - Nathan—
    - Set up and configured second Lambda Vector machine in 306
    - Completed DCNN Fusion documentation
    - Completed DCNN Fusion on IoT23
    - Researching how to benchmark all machines

- **Discussion points**
  - Look into why IoT23 data set results are significantly worse
    - Include justification
  - Team needs to complete overall documentation with results and interpretation

- **Tasks:**
  - Everyone:
    - Keep 305 and 306 clean for visitors
  - Drew:
    - Finalize the IoT paper
  - Kurtis:
    - Document findings, algorithms, code
    - Review Maria’s paper, specifically Section 8 results
      - Compare her results to new results and document
- Implement wavelet scattering for all datasets
  - Sam:
    - Update overall IoT documentation file containing methods and tools
    - Document individual work to add to overall documentation
  - Jared:
    - Document previous work to add to overall documentation
  - Nathan:
    - Revise documentation of fusion methodology and results
      - Include references
    - Visualize IoT23 with K-means clustering

Adjournment at 1:45 pm
Next meeting will be held on Tuesday, August 22nd at 10:00 am