CAE Research Project Meeting Minutes

9/2/2021

- Participants
  - Dr. Waleed Farag (PI)
  - Dr. Soundararajan Ezekiel (Co-PI)
  - Dr. Xinwen Wu
  - Maria Balega
  - Zaryn Good
  - Alicia Deak
  - Franklin May
  - Ryan Gress
  - Cassie Lefever
  - Eliot Hocke
  - Sky Semone
- Meeting started at 3:45 p.m.
- Unanimously approved minutes for meeting on August 23, 2021
- Main Points
  - Discussed:
    - Maria & Cassie
      - Preprocessed all the individual captures from IoT23 dataset, working on combining captures together
    - Alicia
      - DBN had high error rate, its best for image datasets
      - Created a synthetic dataset using Avocado data
    - Zaryn
      - Ran into issues with DCNN running, wasn't reading images correctly
      - Working with Jackson to convert code to fix images
    - Franklin
      - Started implementing confusion matrix to make sure data isn't skewed
    - Ryan
      - Looked further into datasets, found another possible dataset that has a published paper for comparison
  - Tasks:
    - Maria & Cassie
      - Continue preprocessing IoT23 dataset similar to the published paper and run it in XGBoost
    - Alicia
      - Try running images in DBN
      - Work on synthetic dataset using IoT23 data
    - Zaryn & Eliot
      - Continue working on fixing the image issue, work with Sky on DCNN
    - Franklin

- Continue working on confusion matrix
    - Ryan
        - Continue looking into datasets and find published paper so we can compare our results
  - General tasks:
    - Work on abstracts and continue revising them
        - Franklin is working on DCNN abstract
        - Maria is working on XGBoost abstract
    - Back up data on titan
- Adjournment at 4:50 p.m.
- Next meeting will be held on Thursday September 9 at 3:45 p.m. via Dr. Farag's Zoom room