

Graduation Project Week #21

Meeting Minutes

* Agenda

1. Progress of the DICOM Viewer
2. Discussion of some Questions Regarding Simulation and GANs Data Generation
3. Progress of nnU-net model
4. Progress of the Pix2Pix Model and data generation.

* Attendees

Omar Emad (Leader)
Khaled Badr
Hana Hesham
Omar Nabil

* Meeting Points

- DICOM Viewer:
 - Reviewed the progress of the DICOM Viewer.
 - The doctors suggested other modifications to be made as making the scroll bar instead of buttons, changing some buttons' locations, and some other modifications.
- GANs Data Generation:
 - Discussed the suggested process and modified it to fit our objective better
 - Started on the process of combining the infarction from one slice with the myocardium of another slice
- nnU-net Model:
 - Reviewed the progress of the training of the model in our dataset which is not finished yet.
- Pix2Pix Model:
 - Evaluated the current progress (after little augmentation and modified model weights), which was deemed still unsatisfactory.
 - Decided to apply more augmentation and increase the loss weights for the important areas
- General notes:
 - Focus on completing the TensorFlow specialization
 - Make an Excel sheet combining all mapping techniques mentioned in the specialization and all techniques mentioned in GANs papers and compare them.
 - Start to Document all the progress and prepare the slides for the seminar

* Planning Next Meeting

- The next meeting will be on Saturday, February 1st
- Will discuss all the progress in the different aspects