

# Towards Cross-modality Medical Image Segmentation with Online Mutual Knowledge Distillation

## Milestone 2 Presentation

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# Contents

- 1 Subject reminder
- 2 Our progress
- 3 Expectations vs reality & work assignment (?)
- 4 Future

Subject reminder

# Goal

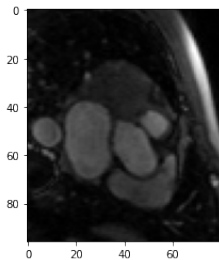


Figure: MR image

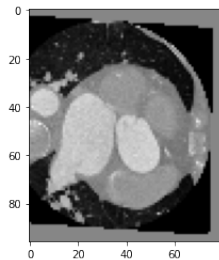
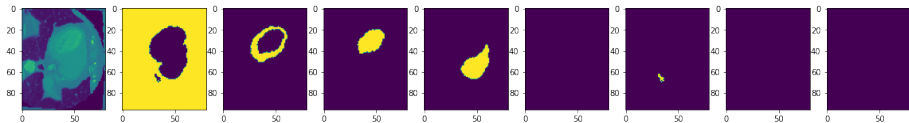
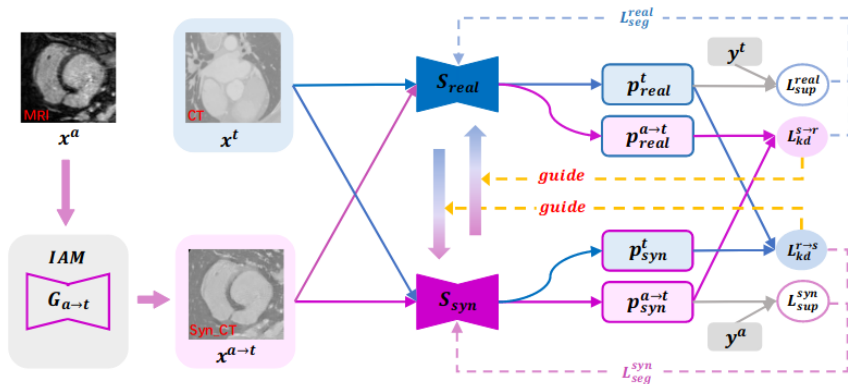


Figure: CT image



# Architecture



## Our progress

# Playing with GANs

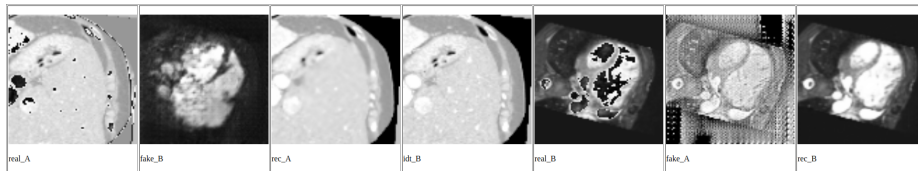
Jeszcze parę godzin temu nienawidziłem GANów



Teraz stwierdzam, że są piękne

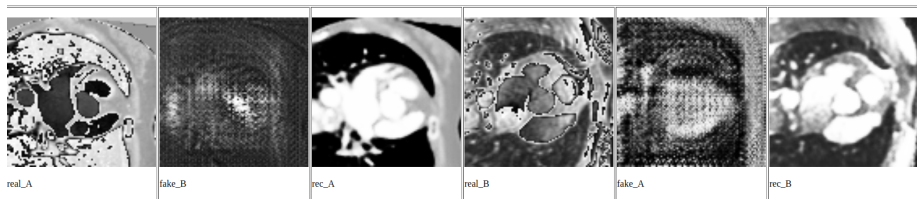


# Fails p1

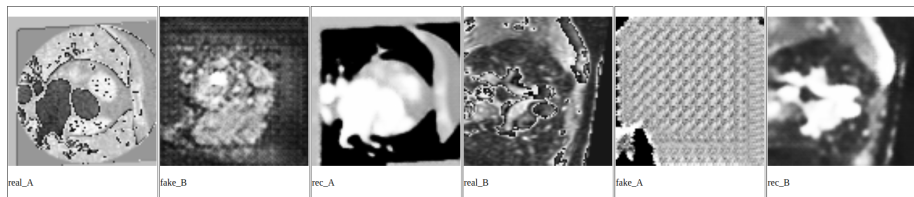




# Fails p2

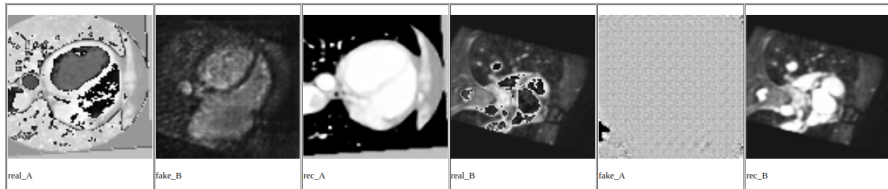


# Fails p3

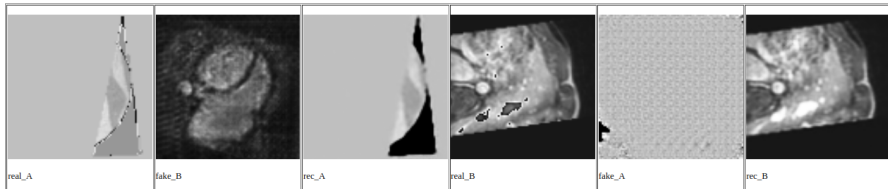


# Total Fail

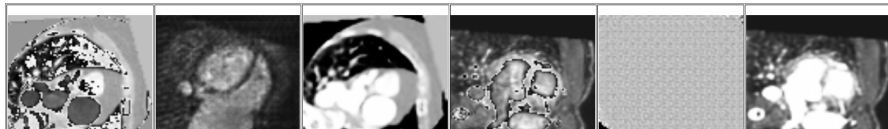
epoch [200]



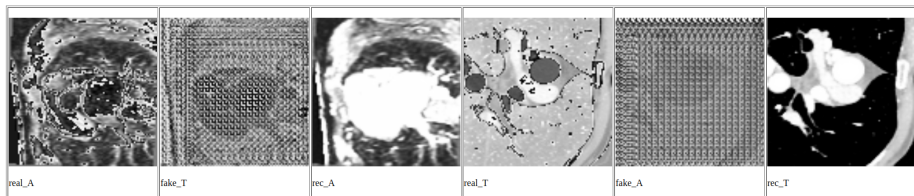
epoch [199]



epoch [198]



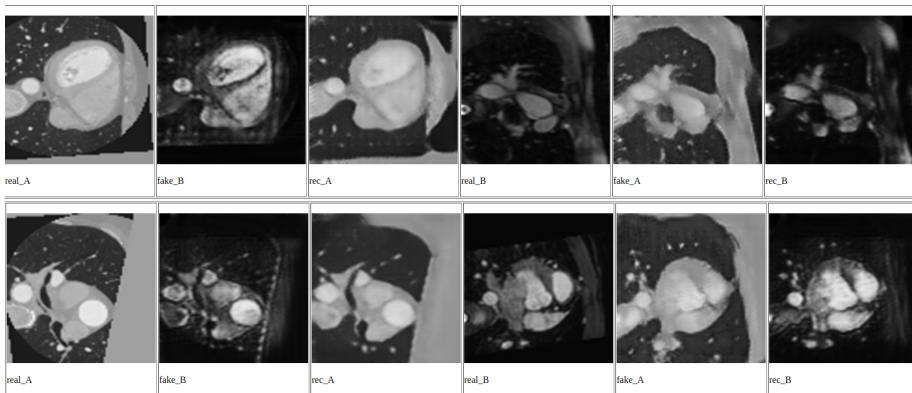
# Maybe whole network will work...



Maybe we should check the data...



# Success



## Expectations vs reality & work assignment (?)

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- Dataset preparation - done (maybe could use some adjustments) - Paweł
- U-net preparation - almost done - Mateusz
- GAN preparation - done - Kacper
- Baseline - not done :-(- - Mateusz
- Joining into the final model - prototype - Kacper
- Presentation - done ;-(- - Paweł, Kacper



Future

# Plans for the future

- 1 Fixing optimalization with Paulina
- 2 Rewriting dataset using TorchIO
- 3 Extracting model from cycleGAN repository
- 4 Training our model
- 5 Training our model on other dataset(GTA)

# Thank you!