Yuyang Hu
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RESEARCH INTERESTS
Deep Learning, Medical Image Processing, Computational Imaging.

EDUCATION

Nanjing Tech University   Nanjing, China
B.S. in Electrical Engineering   GPA: 3.79/4.0   06-2020

Washington University in St.Louis   St.Louis, US
M.S's student in Electrical Engineering   GPA: 4.0/4.0   Since 09-2020

RESEARCH EXPERIENCE

Computational Imaging Group, Washington University in St.Louis   St.Louis, USA
Accurate calibration of coil sensitivities in MRI   *Supervisor: Prof.Ulugbek S. Kamilov*   12. 2020 − now
- Explore the potential of deep learning to enable accurate estimation of coil sensitivity maps

Medical Image Processing, Analysis and Visualization Laboratory, Soochow University   Suzhou, China
Research Assistant   *Supervisor: Prof.Xinjian Chen*   12. 2018 − 9. 2019
- Coded the Data Preprocessing program for our model.
- Coded the Test program for different deep learning models with different datasets to compare the accuracy between different models and wrote experiment reports.
- Assisted in judging the types of retinal diseases in OCT images, and label the lesion areas and disease types for about 3,000 images;

PROJECT WORK

Intelligent Security System *Innovation Project of University Students /Role : Group leader*   01. 2018 − 08. 2018
- This project aims to further verification of the adopt voice print recognition on the basis of the original face recognition.
- Completed the implementation of system identification, user right and information management, GUI design and database design.

Retinal Fundus Glaucoma Segmentation And Detection Model Based On Deep Learning
Undergraduate Student Graduation thesis   10. 2019 − 06. 2020
- Developed a U-Net based model to segment optic disc and optical cup part of fundus image.
- Developed a Resnet based model to detect the glaucoma based on the segmentation image.
- Achieved a 97 per cent of segmentation accuracy and 91 per cent of classification accuracy .

Automatic Tracking Car *Course Project*   05. 2017 − 06. 2017
- Designed the two-wheel self-balancing car and the automatic tracking car.

SKILLS
Programming Skills: Python, C, Java
Deep learning model: Pytorch, Tensorflow, Keras