iandian Guo

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Personal Profile

I'm a Master's student at the University of Stuttgart. I learn Electric Automobile, have finished courses like Deep learning, Detection and pattern recognition, computer vision with very good grades. I Have great interest in deep learning and computer vision related topics. Hardworking and proactive, looking for a good master thesis to prepare for a good PHD in the future.

Education

University of Stuttgart Stuttgart, Germany

MSc in Electric Automobile

Nov 2020 - Current

- · Average Note: 1.6
- Related courses: Deep learning(1.0), Detection and Pattern Recognition(1.0), Computer Vision(1.3), Optische Sensorik für Autonome Systeme(1.3), Matrix Computations in Signal Processing and Machine Learning(1.0), Statistical and Adaptive Signal Processing, etc.

Jilin University Jilin, China

BSc in Automotive Engineering

Sept 2016 - June 2020

- · Graduated with Distinction
- Got the top award of scholarship for 3 times, second award for 1 time.

Project Experience

Deep Leaning Lab Vaihingen, Stuttgart

Diabetic retinopathy classification

Nov 2021 - Jan 2022

- Built a CNN for diabetic retinopathy classification. • Implementation of the heat map part for model analysis.
- Implementation of the ensemble learning part.
- Technical Skills: Python with Tensorflow, NumPy, Matplotlib, Pandas, Ubuntu Linux, Git.
- Soft Skills: Teamwork, Time Management, Communication, Presentation skills.

Deep Leaning Lab Vaihingen, Stuttgart

Human activity classification

Jan 2022 - Apr 2022

- Built the LSTM model for human activity classification.
- Implemented the input data pipeline, analysed the results.
- Technical Skills: Python with Pytorch, NumPy, Matplotlib, Pandas, Ubuntu Linux, Git.
- Soft Skills: Teamwork, Time Management, Communication, Presentation skills.

Research Thesis Vaihingen, Stuttgart

Correcting the semantic mismatch of unpaired semantic image synthesis in autonomous driving

Apr 2022 - Current

- Optimized the discriminator of the GAN(ProjectedGAN disciminator, patch discriminator, EPE discriminator, etc.).
- Designed the additional decoder to reconstruct the image with U-net in pixel and wavelet domain, achieved the best MIoU.
- · Implementation of the EPE discriminator and the crop method to correct the semantic mismatch problem when we use GTA5 label maps to generate cityscape images.
- Technical Skills: Python with Pytorch, NumPy, Matplotlib, Pandas, Ubuntu Linux, Git.
- Soft Skills: Documenting skills, Time Management, Communication, Logical Thinking.

Full time internship in BOSCH

Leonberg, Stuttgart Aug 2022 - Current

Deep Learning based Lane and Road Edge Detection

- · Weighting method implementation and analysis: Put more weights on points of ego lines to help the model learn road splitting scenes. Achieve better results than original baseline.
- Anchor based model optimization: Dataset processing, implementation of the horizontal line detection part, training result analysis
- Anchorless model optimization: Improve the histogram(true positive confidence), result analysis.
- Technical Skills: Python, Bolt, NumPy, Pandas, Ubuntu Linux, Git.
- Soft Skills: Documenting skills, Time Management, Communication, Presentation skills.

Languages _

Chinese Native language

English Fluent German unskilled

OCTOBER 4, 2022