Jin Li

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EDUCATION

➢**Heidelberg University, Germany, Msc in Scientific computing** 2015-present

➢ **Ocean University of China, Qingdao College, China, BEng in Computer Science and Technology** 2010-2014

Overall GPA: 86.68 / 100 (Ranked 2nd out of 68)

RESEARCH INTERNSHIP

➢**Topic: Intend to propose an end-to-end model which is able to overcome drawbacks of DaSiamRPN and SiameseRPN. Image Analysis and Learning Lab, HCI, Heidelberg University** Dec, 2018-present

➢**Topic: Deep reinforcement learning for object tracking in videos. Image Analysis and Learning Lab, HCI, Heidelberg University** May, 2018-Jun, 2018

- Reimplement YOLO and extract feature from FC1 as input into RNN
- Utilize the advantage of RNN to memorize the location of object and predict the location of object in the next time frame
- Model the tracking process by deep reinforcement learning method

➢**Topic: Object tracking for general dataset. Image Analysis and Learning Lab, HCI, Heidelberg University**

- Literature study for object detection problem

- Reimplement “fully-convolutional siamese network for object tracking” paper and analysis the advantages and disadvantages. And also propose advice that might improve the model.
- Reimplement “Recurrent Filter Learning for Visual Tracking” paper and analysis the advantages and disadvantages. And also propose advice that might improve the model.

➢**Topic: Object tracking for mice. Image Analysis and Learning Lab, HCI, Heidelberg University** Nov, 2017-Feb, 2018

- aim: Build novel model using U-Net for biological dataset tracking problem especially for mice tracking
- Implement and apply U-Net for mice tracking
- Compute and utilize vector fields as feature for U-Net
- Train the U-Net then predict vector field in order to solve object overlapping porblem

➢**Topic: Hyperparameter tuning using Gaussian Process. Image Analysis and Learning Lab, HCI, Heidelberg University** Jul, 2017-Sep, 2017

- Solve nonlinear regression problem using Gaussian Process
- Binary and multi-class classification tasks using Gaussian Process
- Bayesian optimization in multi-dimensional case
- Tune hyperparameters of prediction model using Bayesian optimization in high dimension

➢**Topic: Semi-supervised learning for art gallery. Computer Vision Lab, HCI, Heidelberg University** Feb, 2017-May, 2017

- Similarity learning by deep learning method for duplicates detection

- Combine a few art galleries of the Internet and get rid of duplicates among them using pre-trained AlexNet.
- Grade of this internship: 96

➢**Topic: Web-Based Convolutional Neural Networks for Cell Classification**

Biomedical Computer Vision Group, Heidelberg University WS2016/2017

- To classify cells, whether normal or phenotype.
- Implement CNN using javascript
- Web-based implementation
- Grade of this internship: 96

➢**Recognition of Vehicle's License Plate Based on Neural Networks**

- Project supported by the chairman foundation, Qingdao University of Technology, China (Grant No. 2013CX006)
- Design the BP Neural Networks recognition module and implement it.

PUBLICATIONS

➢**LI Jin, LI Shuai, WANG Jiaming, HUANG Kai. Recognition of Vehicle's License Plate and Application in Residential Communities [J]. CHINA SCIENCE AND TECHNOLOGY INFORMATION, 2013,13:89**

PROFESSIONAL PRECTICE

➢Participated in The ACM/ICPC of Shandong Province Jun, 2012

➢Participated in The Freescale Cup Intelligent Car Racing Jun, 2012

➢Participated in China Undergraduate Mathematical Contest in Modeling Sep, 2011

HONORS AND AWARDS

➢Best Bachelor Thesis in Shandong Province (Top 0.1% in Shandong Provience) May, 2015
➢National Scholarship of China (Top 0.1% in University) Dec, 2012
➢Good morality and Social Practice Scholarship Sep, 2012
➢The First-Class Scholarship Sep, 2011
➢Professional Practice and Diathesis Developing Scholarship Sep, 2011

INTERESTS

➢A big fan of marathon and rock climbing

➢Amateur badminton and ping-pang player