Zifeng Wang

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Education

Tsinghua University Beijing, China

B.S. degree in Electronic Engineering, GPA 92/100 (Ranking:12/233) July 2018

- Evergrande Scholarship in Tsinghua (For top 5% students)
- China Scholarship Council Outstanding Undergraduate Students Scholarship (For top 5% students)
- First Prize in Beijing Undergraduate Physics Competition

Northeastern University Boston, MA

Study abroad coursework in Electrical and Computer Engineering Sep 2016 – Dec 2016

- GPA: 3.92/4.00

Lab Experience

Tsinghua University Beijing, China

Research Assistant; Advisor: Jiwen Lu June 2017 – Nov 2017

Multi-object Tracking

- Tracked people in video clips using a deep reinforcement learning approach and created decision-making network for tracking trained by policy gradient
- Combined deep neural network with motion prediction
- Submitted paper, *Multi-Agent Deep Reinforcement Learning for Multi-Object Tracking* for CVPR 2018

University of Michigan Ann Arbor, Michigan

Research Assistant; Advisor: Jia Deng July 2017 – Sep 2017

Instance Level Segmentation

- Used end-to-end Hourglass model to instance segmentation problem
- Innovated balanced training approach and modified network to detect small objects
- Achieved comparable results with FAIRCNN on MSCOCO dataset, with good performance (surpassed mainstram methods when IoU = 0.7) on PASCAL-VOC dataset

Tsinghua University Beijing, China

Research Assistant; Advisor: Shengjin Wang Feb 2017 – June 2017

Palm Print Recognition System

- Identified an individual by reading palm prints by designing pipeline(image pre-processing, palm print extraction, position adjustment, feature extraction, similarity calculation) for the system
- Used scattering networks and CNN to execute feature extraction

Tsinghua University Beijing, China

Research Assistant; Advisor: Yong Li Sep 2015 – Jul 2016

Big Data Mining for Social Networks

- Researched big data mining and user behavior of online shopping customers
- Used Hadoop to analyze data and co-cluster to analyze correlation between customers and target items
- Coauthored *Profiling Users by Online Shopping Behaviors*, published on *Multimedia Tools and Applications*

Skills

- Theory: Machine Learning, Computer Vision
- Development: Proficient in C/C++, Java, MATLAB, Python; Experience with HTML, Verilog, OCAML
- Deep Learning Frameworks: Caffe, Tensorflow, PyTorch