Yifan Jiang

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Education

Huazhong University of Science and Technology, Wuhan, China 2015 – Present

B.E. in Electronic Information Engineering, Current GPA: 3.55/4.0

University of Illinois at Urbana-Champaign, Champaign, USA July. 2017

Summer Program 2017, Information Science & Engineering

Publication

[1] **Yifan Jiang**, Xinyu Gong, Zhangyang Wang, and Yu Cheng. "Deep Enlightening without Paired Supervision". In: *Computer Vision and Pattern Recognition (**CVPR**) (under review)* (2018).

[2] **Yifan Jiang***, Xiaoye Qu*, Xi Ouyang, Yu Cheng, Shiping Wen, Yang Yang, and Pan Zhou. "Attend to Where and When: Cascaded Attention Network for Facial Expression Recognition". In: *IEEE Transaction on Affective Computing (**TAC**) (under review) * equal contribution* (2018).

[3] Xi Ouyang*, Yu Cheng*, **Yifan Jiang**, Chun-Liang Li, and Pan Zhou. "Pedestrian-Synthesis-GAN: Generating Pedestrian Data in Real Scene and Beyond". In: *preprint arXiv:1804.02047* (2018).

Research Experience

Bytedance AI Lab, Beijing, China Feb. 2019 –

Research Intern with Dr. Jianchao Yang. Will be started from 2019 spring.

Texas A&M University (TAMU), College Station, TX July. 2018 – Present

Research Assistant with Prof. Zhangyang (Atlas) Wang

Low-light Image Enhancement without Paired Supervision *July. 2018 - Present*

- Designed EnlightenGAN [1], an unsupervised low light image enhancement method which is the first one adopting unsupervised learning on low light image enhancement task.
- Conduct experiment on real-world images which proves that unpaired training enable us to train the model in various dataset.
- Wrote the paper.

Huazhong University of Science and Technology, Wuhan, China May. 2017 – June. 2018

Research Assistant with Prof. Pan Zhou, Collaborated with Dr. Yu Cheng (Microsoft AI Research)

Facial Expression Recognition In Videos *Dec. 2017 – Mar. 2018*

- Designed a Cascaded Attention Network (CAN) [2] with a group member, which is based on sptio-temporal attention, got state-of-the-art result on three common datasets.
- Conducted ablation experiment to study the effort of spatial and temporal attention in facial expression task.
- Wrote the paper with a group member.

Generating Pedestrian Data in Real Scene *July. 2017 – Nov. 2017*

- Designed Pedestrian-Synthesis GAN [3] with a group member, which can generate labeled pedestrian data to support the training of pedestrian detectors such as FastRCNN, SSD, YOLO.
- Conducted experiment to study the effort of data augmentation by adding synthetic pedestrian data to real dataset and testing mAP results.
- Wrote the paper with two group members.

COMPETITION

HUST Seedcup (Machine Learning Competition) *Sep. 2017 – Oct. 2017*

- Designed a deep neural network with cross entropy loss to predict basketball game results using Tensorflow with a team member.
- Cleansed data using python and Numpy.
- Optimized basketball game prediction accuracy up to 76% and awarded **1st prize** with 10,000 CNY.

PROJECT

Simulation for Hospital Admin System *Dec. 2017*

- Designed the GUI using wxPython,
- Built TCP connection between central control room and wards using ansycore and implemented synchronous non-blocking IO.

Simple Parser for C Language *Oct. 2016*

A simple parser which can analyze a short C programming code and predict the correct result/output of the code(only consider int variables)

- Built the lexical analyzer using C.
- Built the parser with two team members.

Website for Club Recruiting *Aug. 2016*

- Built a RESTful API for the recruit system by Flask.
- Used Sqlite to build the database.

SKILLS

- **Programming Languages**: Python, C/C++, Javascript, Java, LaTeX Matlab, Shell
- **Deep Learning & Computer Vision**: Pytorch, Tensorflow, openCV
- **Web Design**: HTML, CSS, Flask, Tornado ,Django
- **Operating Systems**: Linux, Windows, macOS
- **FPGA**: VerilogHDL

SERVICE

Reviewer for ACCV'18, AAAI'19, IEEE Transaction on Multimedia (TMM)

HONORS AND AWARDS

1st Prize with 10,000 CNY, Awarded on Seedcup meachine learning competition 2017 Oct. 2017
Technology Innovation Scholarship Sep. 2017