

PEIZE SUN

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EDUCATION

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| Hong Kong University , Hong Kong, China
<i>PhD in Computer Science</i>
Advisor: Prof. Ping Luo | Sep.2020 – Jun.2024 |
| Xi'an Jiaotong University , Xi'an, Shaanxi, China
<i>M.E. in Electrical Engineering and Automation</i>
<i>Recommended Postgraduate</i>
Advisor: Prof. Xiaohua Wang | Sep.2017 – Jun.2020 |
| Xi'an Jiaotong University , Xi'an, Shaanxi, China
<i>B.E. in Electrical Engineering and Automation</i>
<i>Graduated with Honors</i> | Sep.2013 – Jun.2017 |

PUBLICATIONS AND MANUSCRIPTS

Papers:(* indicates equal contribution)

- PolarMask: Single Shot Instance Segmentation with Polar Representation**
Enze Xie*, **Peize Sun***, Xiaoge Song*, Wenhai Wang, Ding Liang, Chunhua Shen, Ping Luo
Conference on Computer Vision and Pattern Recognition (CVPR), 2020 (**Oral**)
- Double Anchor R-CNN for Human Detection in a Crowd**
Kevin Zhang*, Feng Xiong*, **Peize Sun**, Li Hu, Boxun Li, Gang Yu
Preprint arXiv:1909.09998
- Identification of Transmission Line Overheat Defects in Infrared Image based on Deep Learning**
Feiyan Zhou, Xuandong Liu, Chengjun Liang, **Peize Sun**
Chinese Conference of Electrical Engineering, 2019
- Development of Cloud Service Platform for Live Detection System of Switchgear**
Peize Sun, Xiaonan Wang, Kang Yang, Xiaohua Wang, Mingzhe Rong
Chinese Conference of Electrical Appliance Intelligent System, 2017

RESEARCH EXPERIENCE

- | | |
|---|---------------------|
| Megvii Inc. (Face++) , Beijing, China
Detection Group
Research Intern, <i>Mentors: Boxun Li, Dr. Gang Yu</i>
Topic: Object Detection & Instance Segmentation <ul style="list-style-type: none">Constructed contour-based instance segmentation with polar representation[1]Implemented head-body-joint location for human detection in crowd[2]Improved object detection by re-defining positive and negative training examplesRe-visited hard example mining training methods for pedestrian detection | Dec.2018 – Nov.2019 |
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University of California, Berkeley, Berkeley, CA, USA

Jul.2018 – Sep.2018

Berkeley Artificial Intelligence Research Lab

Visiting Student, *Mentor: Dr. Ke Li*

Project: Amodal Instance Segmentation

- Developed network architecture with random vector input to predict multimodal segmentation
- Implemented Implicit Maximum Likelihood Estimation algorithm in training process

Xi'an Jiaotong University, Xi'an, Shaanxi, China

Oct.2015 – Jun.2018

State Key Laboratory of Electrical Insulation and Power Equipment

Research Assistant, *Advisor: Prof. Xiaohua Wang*

Topic: Power Grid Unattended Operation and Maintenance

- Developed insulator overheat defects detection in infrared images[3]
- Constructed cloud service platform for power switchgear diagnosis[4]
- Implemented power transmission line detection and anomalous object detection

AWARDS

First-class Academic Scholarship

2018

Chiang Chen Enterprise Scholarship (top 2%)

2017,2018

First-class Recommended Postgraduate Scholarship

2017

National Scholarship (top 1%)

2016

National Endeavor Scholarship (top 1%)

2014,2015

COMPETITIONS

1st Place in Robust Reading Challenge on Arbitrary-Shaped Text of ICDAR

2019

2rd Prize, "TI Cup" Electronic Design Contest of Shaanxi

2016

2rd Prize, National Contest on Energy Saving & Emission Reduction

2016

1st Prize (Meritorious Winner), Interdisciplinary Contest in Modeling of America

2016

SKILLS

Programming Languages

Python, MATLAB, C++

Deep Learning Tools

PyTorch, Caffe