Enze Xie

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EDUCATION

The University of Hong Kong, Hong Kong 2019.10 – 2022.10

Phd: Computer Vision (Supervised by Dr. Ping Luo)

Tongji University, Shanghai 2016.9 – 2019.4

Master: Computer Science

Nanjing University of Aeronautics and Astronautics, Nanjing 2012.9 – 2016.6

Bachelor: Aircraft Manufacturing

INTERNSHIP

SenseTime, Beijing 2019.7 – Now

Research Intern

- Do research on object detection and instance segmentation.

Megvii(Face++) Detection Group, Beijing 2018.4 – 2019.7

Research Intern *Supervised by Dr. Gang Yu and Dr. Cong Yao*

- Person-car detection and car license recognition. Use RetinaNet to bind detect person-head.
- Re-implement text recognizer CRNN, achieve the accuracy in the paper on ICDAR2013,SVT,and IIIT5K, then try to use it on car license recognition. Add some tricks to improve performance: Global Average Pooling, FPN etc.
- Do research on arbitrary-shape text detection, achieve state-of-the-art on ICDAR datasets. Two works have been accepted to AAAI2019 and CVPR2019. Do research on real-time and arbitrary-shape text detection. This work has been accepted to ICCV2019.

eBay Traffic Team, Shanghai 2017.7 – 2018.12

Data Develop Intern *Supervised by Manager Yiming Huang*

- Use Spark, Flume, Kafka, Hadoop, Azkaban, etc to build the advertisement service for eBay on google and Facebook.

RESEARCH EXPERIENCE

Research in Image Completion 2017.11 – 2018.3

Supervised by Prof. Guangyao Li, Tongji University

- In this work, we use the Generative Adversarial Networks(GANs) to complete image with missing regions. We use global and local context information to guide the generator to inpaint image more realistic.

PUBLICATIONS

- **Scene Text Detection with Supervised Pyramid Context Network**
  Enze Xie*, Yuhang Zang*, Gang Yu, Cong Yao *et al.*
  Accepted, In AAAI, 2019 **Link**: https://arxiv.org/abs/1811.08605
- **Shape Robust Text Detection with Progressive Scale Expansion Network**
  Wenhai Wang*, **Enze Xie***, Gang Yu *et al.*
  Accepted, In CVPR, 2019 **Link**: https://arxiv.org/abs/1903.12473
- **Efficient and Accurate Arbitrary-Shaped Text Detection with Pixel Aggregation Network**
  Wenhai Wang*, **Enze Xie***, Chunhua Shen *et al.*
  Accepted, In ICCV, 2019 **Link**: https://arxiv.org/abs/1908.05900

- **TextSR: Content-Aware Text Super-Resolution Guided by Recognition**
  Wenjia Wang*, **Enze Xie***, Chunhua Shen, Ping Luo *et al*.
  Under Review **Link**: https://arxiv.org/abs/1909.07113
- **PolarMask: Single Shot Instance Segmentation with Polar Representation**
  Enze Xie*, Peize Sun*, Chunhua Shen, Ping Luo *et al*.
  Under Review **Link**: https://arxiv.org/abs/1909.13226

COMPETITION

ICDAR2019 Arbitrary-Shaped Text Detection Champion

- In this competition, I lead four interns in Face++ to win the first in ICDAR2019. Many famous companies and universities participated in this competition.

OpenImage 2019 Instance Segmentation Champion

- In this competition, I am a member with two partners from MMLab and SenseTime. Many famous companies and universities participated in this competition.

SERVICE

- CVPR2019 Student Volunteer
- CVPR2020 Reviewer

PATENT

- Text detection method, device and electronic device.
- Network training method, image processing method and electronic device.

ABILITY

- English: IELTS 6.0
- Programming Skills： Python, Java, Scala
- Computer Vision: Object detection， instance segmentation and semantic segmentation.
- Others： Familiar with Linux and VIM development environment.