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 General Model Group, Beijing   2019.7 – 2020.3

Research Intern

- Do research on object detection, instance segmentation and Pose Estimation. Two works are accepted by CVPR2020 (Oral) and ECCV2020.

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

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

- Apply detection and recognition algorithms into products such as car license detection/recognition and pedestrian detection.
- Do research on unconstrained text detection, achieve state-of-the-art on ICDAR datasets. Three works have been accepted to AAAI2019, CVPR2019 and 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*, Shuai Shao, Gang Yu, Cong Yao, Guangyao Li
  AAAI 2019   **Link**: https://arxiv.org/abs/1811.08605
- **Shape Robust Text Detection with Progressive Scale Expansion Network**
  Wenhai Wang*, **Enze Xie***, Xiang Li, Wenbo Hou, Tong Lu, Gang Yu, Shuai Shao
  CVPR 2019   **Link**: https://arxiv.org/abs/1903.12473
- **Efficient and Accurate Arbitrary-Shaped Text Detection with Pixel Aggregation Network**
  Wenhai Wang*, **Enze Xie***,Xiaoge Song, Yuhang Zang, Tong Lu, Gang Yu, Chunhua Shen
  ICCV 2019   **Link**: https://arxiv.org/abs/1908.05900

- **PolarMask: Single Shot Instance Segmentation with Polar Representation**
  Enze Xie*, Peize Sun*, Xiaoge Song*, Wenhai Wang, Chunhua Shen, Ping Luo
  CVPR 2020 (Oral)   **Link**: https://arxiv.org/abs/1909.13226
- **Segmenting Transparent Objects in the Wild**
  Enze Xie, Wenjia Wang, Wenhai Wang, Mingyu Ding, Chunhua Shen, Ping Luo
  ECCV2020   **Link**: https://arxiv.org/abs/2003.13948
- **Scene Text Image Super-Resolution in the Wild**
  Wenjia Wang*, Enze Xie*, Xuebo Liu, Wenhai Wang, Ding Liang, Chunhua Shen, Xiang Bai
  ECCV2020   **Link**: https://arxiv.org/abs/2005.03341
- **AE TextSpotter: Learning Visual and Linguistic Representation for Ambiguous Text Spotting**
  Wenhai Wang, Xuebo Liu, Xiaozhong Ji, Enze Xie, Ding Liang, ZhiBo Yang, Tong Lu, Chunhua Shen, Ping Luo
  ECCV2020   **Link**: Coming Soon
- **Differentiable Hierarchical Graph Grouping for Multi-Person Pose Estimation**
  Sheng Jin, Wentao Liu, Enze Xie, Wenhai Wang, Chen Qian, Wanli Ouyang, Ping Luo
  ECCV2020   **Link**: https://arxiv.org/abs/2007.11864

COMPETITION

OpenImage 2019 Instance Segmentation   Rank 1
- In this competition, I am a member with two partners from MMLab (CUHK and HKU) and SenseTime. Many famous companies and universities participated in this competition.

ICDAR2019 Arbitrary-Shaped Text Detection   Rank 1
- In this competition, I lead four interns in Face++ to win the first place in ICDAR2019. Many famous companies and universities participated in this competition.

ICDAR 2019 Large-scale Street View Text Detection   Rank 2
- In this competition, I co-operate with Wang Wenhai, who is a student leader of this team in NJU Imaging Lab. Many famous companies and universities participated in this competition.

SERVICE

- CVPR2019 Student Volunteer
- Reviewer for CVPR, WACV, ACCV

PATENT

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

ABILITY

- Programming Skills：Python, Java, Scala
- Computer Vision: Detection，Segmentation and OCR.
- Others：Familiar with Linux and VIM development environment.