

Zhengkai Jiang

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Personal Profile

Self-motivated deep learning algorithm researcher at Tencent Youtu Lab. I have published several papers on top conferences such as NeurIPS, CVPR, ECCV and AAAI. My research interests mainly lie in object detection, video understanding and generative model.

Research Interest

- Object Detection, Instance Segmentation, Video Understanding, Generative Model

Education

- 2017-2020 Master of Pattern Recognition and Intelligent System**
National Laboratory of Pattern Recognition,
Institute of Automation, Chinese Academy of Sciences, Beijing, China
Overall GPA: 3.7/4.0
Fields: Computer Vision and Deep Learning
- 2013-2017 Bachelor of Automation**
Northeastern University, Shenyang, China
Overall GPA: 91.3/100, Ranking: **1/37**(2/248)

Work Experience

- Tencent Youtu Lab** Jul. 2020 - Now
Researcher, Shanghai, China
Topic: Image and Video Understanding
- Megvii Research** Apr. 2019 - Mar. 2020
Research Intern, Beijing, China
Topic: General Object Detection
Mentor: Dr. Gang Yu and Zeming Li
- Horizon Robotics** Jan. 2018 - Mar. 2019
Research Intern, Beijing, China
Topic: Video Object Detection
Mentor: Dr. Zhang Qian
- Sensetime Research** Apr. 2017 - Aug. 2017
Research Intern, Beijing, China
Topic: Pedestrian Attribute Classification
Mentor: Dr. Shao Jing

Publication

- **AutoAssign: Differentiable Label Assignment for Dense Object Detection**
Benjin Zhu, Jianfeng Wang, **Zhengkai Jiang**, Fuhang Zong, Songtao Liu, Zeming Li, Jian Sun
In Submission
- **Fine-grained Dynamic Routing for Object Detection**
Lin Song, Yanwei Li, **Zhengkai Jiang**, Zeming Li, Hongbin Sun, Jian Sun, Nanning Zheng
Conference on Neural Information Processing Systems (NeurIPS), 2020
- **Rethinking Learnable Tree Filter for Generic Feature Transform**
Lin Song, Yanwei Li, **Zhengkai Jiang**, Zeming Li, Xiangyu Zhang, Hongbin Sun, Jian Sun, Nanning Zheng
Conference on Neural Information Processing Systems (NeurIPS), 2020
- **Learning Where to Focus for Efficient Video Object Detection**
Zhengkai Jiang, Yu Liu, Ceyuan Yang, Jihao Liu, Peng Gao, Qian Zhang, Shiming Xiang, Chunhong Pan
European Conference on Computer Vision (ECCV), 2020
- **Class-balanced Grouping and Sampling for Point Cloud 3D Object Detection**
Benjin Zhu, **Zhengkai Jiang**, Xiangxin Zhou, Zeming Li, Gang Yu
NuScenes Winner in IEEE Conference on Computer Vision and Pattern Recognition (CVPR) WAD Workshop, 2019
- **Dynamic Fusion with Intra- and Inter- Modality Attention Flow for Visual Question Answering**
Peng Gao, **Zhengkai Jiang**, Haoxuan You, Pan Lu, Steven Hoi, Xiaogang Wang, Hongsheng Li
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019, **Oral**
- **Video Object Detection with Locally-Weighted Deformable Neighbours**
Zhengkai Jiang, Peng Gao, Chaoxu Guo, Qian Zhang, Shiming Xiang, Chunhong Pan
Association for the Advancement of Artificial Intelligence (AAAI), 2019

Honors and Awards

- **Outstanding Student in Institution of Automation, Chinese Academy of Sciences, 2020**
- **Outstanding Student in Institution of Automation, Chinese Academy of Sciences, 2019**
- **Excellent Graduate in Liaoning Province, 2017**
- **1st class Scholarship of Northeastern University, 2014, 2016**
- **2nd Prize on National Mathematical Contest in Modeling(in China), 2015**
- **3st Prize on Final Chinese Mathematics Competitions(in Fuzhou, China), 2016**
- **1st Prize on Chinese Mathematics Competitions(in Shenyang, China), 2015**
- **2st Prize on Final Chinese Mathematics Competitions(in Wuhan, China), 2015**
- **1st Prize on Chinese Mathematics Competitions(in Shenyang, China), 2015**
- **National Scholarship (Top 0.2% students in China), 2016**
- **National Scholarship (Top 0.2% students in China), 2015**
- **National Scholarship (Top 0.2% students in China), 2014**

Professorial Services

Conference Reviewer

- **Association for the Advancement of Artificial Intelligence, 2021**
- **International Conference on Computer Vision and Pattern Recognition, 2021**