Kai Zhao

411 CCCE Hall •Nankai University(Jin'nan campus) • Tianjin, China
http://kaizhao.net • kaiz.xyz@gmail.com
Google scholar: http://kaizhao.net/scholar

Research Interests

Machine Learning, Computer Vision, Reinforcement Learning.

Experience

- **Panasonic Research Develop Center Singapore** — **Singapore**
  Research Intern — *2018.09 – 2018.12*
  - Scene Recognition
- **Nankai University** — **Tianjin, China**
  Ph.D student — *2017 -*
  - Ph.D researcher in the visual computing lab.
  - Object skeleton detection in natural images, saliency detection.
- **Tencent Youtu Lab** — **Shanghai, China**
  Research Intern — *2016.03 – 2016.06*
  - Multi-label image classification and learning from web crawled data.
- **Shanghai University** — **Shanghai, China**
  Master Student — *2014 – 2017*
  - Team member, lab of computer vision and pattern recognition;
  - Object skeleton/boundary detection in the wild, decision trees and deep learning;
  - 3 papers were accepted to top tier conferences/journal in the area of computer vision and machine learning (1 CVPR, 1 IEEE Trans on Image Processing, 1 NIPS).
  - I was NOT rated as excellent undergraduate student because the school consider only THE NUMBER OF JOURNAL PAPERS.
- **Shanghai University** — **Shanghai, China**
  Bachelor Student — *2010 – 2014*
  - Leader of a student group aiming at building websites for school departments and companies (we made money from it);
  - Graduation project, object recognition based on skeleton-union tree was as rated excellent project;

Education

- **Nankai University** — **Tianjin, China**
  College of Computer Science and Control Engineering, Ph.D Computer Science — *2017 – 2020 (expected)*
- **Shanghai University** — **Shanghai, China**
  School of Communication and Information Engineering, M.S — *2014-2017*
- **Shanghai University** — **Shanghai, China**
  School of Communication and Information Engineering, B.S — *2010-2014*

Core Technical Skills

Theory: Information theory, Statistics, Optimization, Machine learning, Neural networks.
Programming: C, C++, CUDA, LaTeX, Python, shell script
Language: English: fluent (ILETS average 6.5, reading 8.5); Chinese-simplified (native).

Publications

- ***Kai Zhao***, *Shanghua Gao, Wenguan Wang, Ming-Ming Cheng*, Optimizing the F-measure for Threshold-free Salient Object Detection, **ICCV2019**
- ***Kai Zhao***, *Jingyi Xu, Ming-Ming Cheng*, RegularFace: Deep Face Recognition via Exclusive Regularization, **CVPR2019**
- ***Kai Zhao***, *Wei Shen, Shanghua Gao, Dandan Li, Ming-Ming Cheng*, Hi-Fi: Hierarchical Feature Integration for Skeleton Detection, **IJCAI2018**
- *Wei Shen*, ***Kai Zhao***, *Yilu Guo, Alan Yuille*, Label Distribution Learning Forests, **NIPS2017**
- *Wei Shen*, ***Kai Zhao***, *Yuan Jiang, Yan Wang, Xiang Bai, Alan Yuille*, DeepSkeleton: Learning Multi-task Scale-associated Deep Side Outputs for Object Skeleton Extraction in Natural Images, **TIP2017**
- *Wei Shen*, ***Kai Zhao***, *Yuan Jiang, Yan Wang, Zhijiang Zhang, Xiang Bai* Object Skeleton Extraction in Natural Images by Fusing Scale-associated Deep Side Outputs, **CVPR2016**

See http://kaizhao.net/research for full publication list.

Software

- shu-thesis: a LaTeX template for Shanghai Univ master thesis;
- VLTools: a collection of useful, practical utilities, tools and extensions for computer vision and machine learning.