Yanwu XU

Contact Information

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Education

Central South University,Changsha, CN

B.S., Electronic Mechanical Engineering, Sep. 2013-Jun. 2017

GPA: 3.6/4.0 (Rank: 3 /25)

Toefl: 100

Research Interests

- Computer Vision: metric learning, few shot learning, semantic segmentation
- Machine Learning: transfer learning

Research Experience

- Research intern,**Université Paris-Est**, Paris, Fr Sep. 2017-May. 2018
  Advisor: Prof. Chaohui Wang
  Main work: Develop a robust local descriptor model and the work is accepted by **ACCV2018**
- Visting Scholar,**University of Pittsburgh**, Pitt, US Jun. 2018-
  Advisor: Prof. Kayhan Batmanghelich
  Main work: Propose a multi-scale network based on U-Net for brain tumor segmentation. Our method get rank 9/66 in **BraTS challenge**

Project Experience

- Local descriptor learning Main work: Propose a angular embedding and a robust version of triplet margin loss function for local descriptor learning. **(ACCV2018)** Sep. 2018
- Medical Image Processing for Brain Tumor Segmentation Main work: Apply machine learning and computer vision on medical image(MRI) for brain tumor segmentation. MICCAI BraTS2018 **(BraTS2018 LNCS)** Oct. 2018
- Image Processing and Face Detection Application Main work: Image processing for robust edge extraction and face detection with cascade algorithm based on C++ GUI design May 2017

Research Publication

- **Yanwu Xu**, Mingming Gong, Tongliang Liu, Kayhan Batmanghelich and Chaohui Wang, Robust Local Descriptor Learning, ACCV2018
- **Yanwu Xu**, Mingming Gong, Huan Fu, Dacheng Tao, Kun Zhang and Kayhan Batmanghelich, Multi-scale Masked 3-D U-Net for Brain Tumor Segementation, BraTS2018 LNCS

Technical Skills

Programing Language: Python, Cython, Matlab, C++, Java, SQL

Machine Learning Framework: Pytorch, Tensorflow
Operating System: Linux (Ubuntu), Windows.