



Zili Peng

About

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Research Interest

- Image Segmentation
- Computer Vision
- Deep Learning
- Intelligent Driving

Education

Doctor of Science

College of Mathematics and Statistics, Hunan Normal University,
Changsha, P.R. China

Sept. 2015 – Dec. 2018

- Supervisor: Professor Qiaoliang Li
- Specialization: Computational Mathematics

Master of Engineering

College of Mathematics and Computer Science, Hunan Normal University,
Changsha, P.R. China

Sept. 2013 – Jul. 2015

- Supervisor: Associate Professor Dahong Xu
- Specialization: Computer Application Technology

Research Experience

Key Laboratory of Computing and Stochastic Mathematics (Ministry of Education, LCSM)

Changsha, P.R. China

Student Assistant

Sept. 2013 – Dec. 2018

- Worked as part of image segmentation team
- Improved performance of image segmentation techniques
- Publications: Adaptive Appearance Separation for Interactive Image Segmentation Based on Dense CRF, in *IET Image Processing*; Interactive image segmentation using geodesic appearance overlap graph cut, in *Signal Processing: Image Communication*

Projects Experience

National Natural Science Foundation of China, No. 11471002

Research on Some Graph Theory Problems in Image Segmentation

Key researcher

Sept. 2015 – Dec. 2018

Hunan Provincial Science and Technology Plan, No. 2013FJ4052

Research on Image Segmentation Based on Combination Optimization Method

Researcher

Sept. 2015 – Dec. 2017

Hunan Provincial Postgraduate Research Innovation Project, No. CX2014B220

Research on Intelligent Analysis and Recognition of Tobacco Pests and Diseases Based on Computer Vision and Its Key Technologies

Key researcher

Sept. 2013 – Dec. 2014

Skills

- Programming Skills: C/C++, Matlab, Python, Java.
- Deep Learning: familiar with machine learning and deep learning basics (*Deep Feedforward Networks, Regularization for Deep Learning, Optimization for Training Deep Models, etc.*), having a certain understanding of *Tensorflow, Caffe2* and *PyTorch*.
- Computer Vision: master in *segmentation*, familiar with image processing (*filtering, classification, etc.*), video analysis (*object recognition, tracking, etc.*) and the popular *OpenCV*.
- Others: solid foundation in mathematics (*Probabilistic Graphical Models, Convex Optimization, etc.*), English skills (CET-6: 468).