



Yuan Jiang

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Education

- 2015 - 2018 **Master of Science, Shanghai University, China**
Computer Vision & Pattern Recognition
Supervisor: Dr. *Wei Shen*
- 2011 - 2015 **Bachelor of Engineering, Shanghai University, China**
Communication & Information Engineering, GPA: **3.33/4**

Research Projects

- March 2016 -
Now **Object Proposal Detection in Natural Images**
Proposing objects, whatever their classes are, from a nature image. We plan to train a FCN-based model to generate the "objectness" of each pixel in the image, so that objects in the image can be detected then. This work is undergoing a **National Natural Science Foundation of China** Program.
- Dec. 2015 -
March 2016 **Digits Recognition via CNN** [\[Code\]](#)
Detecting digits on the photographs of gas meters using a Convolutional Neural Network.
- Oct. 2015 -
Jan. 2016 **Object Skeleton Extraction in Natural Scenes (CVPR2016)** [\[PDF\]](#) [\[Code\]](#)
Extracting object skeleton using a unique Fully Convolutional Network. We build a new dataset, named *sk506* for object skeleton detection in natural images. Our insight focuses on the relationship between receptive fields and skeleton scales, resulting in outperforming existing methods on mainstream public datasets.
- Sept. 2015 -
Nov. 2015 **Shape Representation & Classification (PRL2016)** [\[PDF\]](#) [\[Code\]](#)
Recognizing image based on its shape, with represented by fusing the contour and skeleton. In our work, the famous shape descriptor, *shape context*, is modified to principally combine the skeleton information with the contour information of a shape. The bag-of-words and SPM are also adopted to ensure our descriptor both accurate and robust. The proposed approach has gained the state-of-the-art performance at three main datasets for shape recognition.

Awards

- 2015 - 2016 **The National Academic Scholarship, Shanghai University**
- 2013 - 2014 **The Scholarship of Self-improvement, Shanghai University**
- 2011 - 2012 **The Second Prize of Academic Scholarship, Shanghai University**

Address

Yanchang Campus
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Research Interests

Computer Vision
Pattern Recognition
Machine Learning
Deep Learning

Relevant Skills

coding skills:
C++, Python, Matlab
prototype models

developer tools:
Caffe, Latex, Git, gdb

language skills:
English: CET-6 453
basic knowledge of
Japanese

Relevant Courseworks

Pattern Recognition
Probabilistic Learning
Machine Learning
Data Structures
Calculus
Linear Algebra

Internships

China Mobile Device
Company in 2014

Test games for **Ubisoft
Entertainment** in 2016