

Jianfeng Wang

---

Email: jianfengwang1991@gmail.com  
Address: Beijing, China

EDUCATION

- *Master of Science* 2013.9-2017.6  
Computer Technology  
Beijing University of Posts and Telecommunications (BUPT)
  - *Bachelor of Engineering* 2009.9-2013.6  
Telecommunications Engineering with Management  
Beijing University of Posts and Telecommunications (BUPT)  
Major GPA: 87.14 / 100  
Overall GPA: 85.10 / 100

## PUBLICATIONS

- [1] **Jianfeng Wang**, Xiaolin Hu  
"Gated Recurrent Convolution Neural Network"  
Under review, IEEE Trans on Pattern Analysis & Machine Intelligence (TPAMI) 2018.
  - [2] **Jianfeng Wang**, Zhongchao Shi, Feiyu Xu  
"Residual Temporal Recurrent Networks for Unsupervised Video Summarization"  
Under review, Asian Conference on Computer Vision (ACCV), 2018.
  - [3] **Jianfeng Wang**, Xiaolin Hu  
"Gated Recurrent Convolution Neural Network for OCR"  
In Proc. of Advances in Neural Information Processing Systems (NIPS), 2017.  
The source code and pre-trained model can be found at:  
<https://github.com/Jianfeng1991/GRCNN-for-OCR>
  - [4] Haihong E, **Jianfeng Wang**, Meina Song, Qiang Bi, Yingyi Liu  
"Incremental Weighted Bipartite Algorithm for Large-scale Recommendation Systems"  
In Turkish Journal of Electrical Engineering & Computer Science, 2016.

## **INTERNSHIPS or WORKING EXPERIENCE**

- Lenovo AI Lab**  
Computer Vision Researcher 2017.7-present

  - Project: Face Recognition
    - We studied deep learning for face recognition. We implemented a new combined angular margin loss and applied GRCNN to face recognition. The code and MsCeleb+VGGFace2 pre-trained model can be found at:  
<https://github.com/Jianfeng1991/GRCNN-for-Face>
    - Implemented a CycleGAN to generate eye glasses for each identity. This method augments the training data and eliminates the effect of eye glasses.
    - Implemented MobileNet, MobileNet-v2, ShuffleNet and ShuffleNet-v2 that can be applied to mobile devices for face recognition.
    - We now investigate a new end-to-end transfer learning framework that is capable of dealing with the training datasets with long-tail distribution.
  - Project: Facial Expression Recognition
    - We now investigate a new framework which extracts facial expression representation for recognition

- Project: Scene Text Recognition
  - Designed a CNN based framework for scene text recognition.
  - We proposed a new network architecture which is called Gated Recurrent Convolution Neural Network for scene text recognition. The proposed model achieved state-of-the-art results on several benchmark datasets.
- Project: Object Recognition
  - We applied our GRCNN to object recognition task to verify its effectiveness. It obtained very competitive results on CIFAR, SVHN and ImageNet-2012.
- Project: Action Recognition in Videos
  - We studied the 3D convolution networks and LSTM for action recognition.
  - We implemented two stream 3D recurrent convolution neural network for action recognition and obtained a comparable results on UCF-101 and HMDB-51

**OTHER  
PROJECTS or  
EXPERIENCES**

- Incremental Weighted Bipartite Network for Recommender System:
  - We proposed and implemented an incremental algorithm to update the weights efficiently in weighted bipartite network for recommender system.
- Collaborative filtering recommender system:
  - Implemented user-based algorithm and item-based algorithm for book recommendation in university.
- Text classification: Designed and implemented a system for text classification. It contains:
  - Chinese word segmentation
  - TF-IDF for feature representation
  - Naive Bayes for text classification.

**MISCELLANEOUS**

- **Toolbox:** Experienced with Torch, Caffe, Tensorflow.
- **Honors:** Second-class scholarship of the school (top 8%), Third-class scholarship of the school (top 10%).