

JINGYI XU

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RESEARCH INTERESTS

Computer Vision, Deep Learning

EDUCATION

Stony Brook University, United States
Ph.D, Computer Science

Sep 2019 - Present
GPA : 4.0/4.0

Nankai University, China
B.S., Computer Science

July 2015 - June 2019
GPA : 90.3/100

PUBLICATION

Kai Zhao, **Jingyi Xu**, Mingming Cheng. **RegularFace: Deep Face Recognition via Exclusive Regularization**. CVPR 2019.

EXPERIENCE

Research Intern at SenseTime, Beijing

Dec 2018 - July 2019

- Introduce a feature generator to generate hard features by maximizing cross-entropy loss
- The recognition model is trained to classify both the original features and the hard features correctly
- The proposed adversarial training leads to discriminative features for verification.

Research Intern at Panasonic R&D Center, Singapore

September 2018 - December 2018

- Aim to improve face recognition model's performance on frontal-profile face image pairs.
- Propose a module capable of modeling the transportation between frontal-profile faces in feature space.

Research Assistant at University of Notre Dame, USA

July 2018 - September 2018

- Construct a graphic model of R packages based on their dependency relationship.
- Evaluate the popularity of the packages according to the frequency imported by other packages.
- Build a web-app that can generate an interactive graph to illustrate the inter-connections between packages.

PROJECTS

Face recognition via exclusive regularization

April 2018 - July 2018

- Propose a new regularization term to increase inter-class separability for face verification.
- The method distances identities by enlarging the cosine distance between an identity and its nearest neighbour in an embedding space.
- It is easy to implement and outperforms prior methods on several open benchmarks.

Few-shot Learning by Intra-class Variance Transfer

Dec 2019 - March 2020

- Model the distribution of intra-class variance on base set by variational inference.
- Transfer the learned distribution to novel set images for feature augmentation.
- Achieve state-of-the-art performance on CUB dataset.

TECHNOLOGY SKILLS

Programming Languages
Tools

Python, C/C++, Java, MATLAB, L^AT_EX
Pytorch, Caffe

AWARDS

First Prize of Scholarship, Nankai University

2016, 2018

Second Prize of Scholarship, Nankai University

2017

First Prize, China Undergraduate Mathematical Contest in Modeling

2017

First Prize, China College Students Mathematics Competition

2016