



BOJIA ZI

2nd Year Master Student in Fudan University

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Education

Master | Computer Science and Technology
Fudan University

Sep. 2019 – Jun. 2022
Yangpu, Shanghai, China

Bachelor | Software Engineering
Shandong University(GPA: 89.25/100)

Sep. 2015 – Jun. 2019
Jinan, Shandong, China

Publication

Revisiting Adversarial Robustness Distillation: Robust Soft Labels Make Student Better

Bojia Zi*, Shihao Zhao*, Xingjun Ma, Yu-Gang Jiang

ICCV 2021

- Identify the importance of distillation process and robust soft labels in adversarial training methods and propose an adversarial robustness distillation method called RSLAD.

WildDeepfake: A Challenging Real-World Dataset for Deepfake Detection

Bojia Zi, Minghao Chang, Jingjing Chen, Xingjun Ma, Yu-Gang Jiang

ACM MM 2020

- Propose a real-world Dataset for Deepfake detection and a novel method named Attention based Deepfake Detection Network(ADDNet).

Projects

Deepfake Detection Challenge

Jan. 2020 – Apr. 2020

Kaggle Competition.

Held by Facebook, AWS and Microsoft, Silver Medal, Top 1.29%

- Reprocess the videos in dataset, use the state-of-the-art data augmentation methods and ensemble 16 models(10 EfficientNets, 3 LSTMs and 3 transformers) in total to identify whether a video is generated or modified by Deepfake techniques.

A Novel Method for Adversarial Denoise.

Sep. 2019 –Dec. 2019

Achieve SOTA at that time.

- I empirically found that if the adversarial image is separated into "style" and "texture" and then reconstructed by auto-encoder, can remove most of the adversarial noise. Based on the above findings, I use a two-stream encoder to encode image features, and a single-stream decoder to reconstruct the image.

High-performance Computing Based on Simulation of Ocean Data

Jun. 2018 – Aug. 2018

Research Assistant in HPC-Lab

- Optimize the modeling algorithm of ocean wave data, use intel Vtune for algorithm hotspot mining, and find the "bottleneck" of the algorithm for optimization.

Awards

DFDC in Kaggle Silver Medal(Top 1.29%)

Apr. 2020

QiMingXingChen Scholarship in Fudan University(Top 2%)

Sep. 2020

Second Honor Scholarship in Shandong University(Top 5%)

Sep. 2018

National University Student Software Innovation Competition Third Prize

Nov. 2017

Research Experience

Research Intern

Jun. 2021 – Sep. 2021

Supervised by Cihang Xie(University of California, Santa Cruz)

Research Assistant

Mar. 2016 – Aug. 2018

Supervised by Weiguo Liu(Shandong University)