

EDUCATIONS

University of Science and Technology of China(USTC), Suzhou, China 2022 Mar - Present
Ph.D. in Electronic and Information Engineering
Advisor: Dr.Shaohua Zhou

Tianjin University(TJU), Tianjin, China 2019 Sep - 2022 Mar
M.S. in Computer Science
Advisor: Dr.Shanjiang Tang, Graduated with Honor

Tiangong University(TGU), Tianjin, China 2015 Sep - 2019 Jul
B.E. in Network Engineering
Advisor: Dr.Guozhi Song, Graduated with Honor

PUBLICATIONS

Journal Papers

[2021] - **IEEE Transactions on Industrial Informatics - [TII-JCR-Q1]**
EDL-COVID: Ensemble Deep Learning for COVID-19 Cases Detection from Chest X-Ray Images
Shanjiang Tang, Chunjiang Wang, Jiangtian Nie, Neeraj Kumar, Yang Zhang, Zehui Xiong, Ahmed Barnawi

ACADEMIC SERVICE

Journal Reviewer:

- **Signal, Image and Video Processing [JCR-Q4]** 2022

RESEARCH EXPERIENCE

Tianjin University 2019 Sep - 2022 Mar
Advised by Prof. Shanjiang Tang
Optimized the performance of Deep-neural-network-based Video Analytics

Tianjin University 2020 May - 2020 Oct
EDL-COVID: Ensemble Deep Learning for COVID-19 Cases Detection from Chest X-Ray Images

- Applied Ensemble method to improve the covid-net model accuracy from 93.3% to 95%.
- Proposed a novel weighted average ensembling(WAE) strategy to aware the varied class-level accuracies for different machine learning models.

Tianjin University 2020 Sep - 2020 Oct
Second Prize, The 5th China Innovation Challenge (Tianjin), Team Leader

- Verified different object detection algorithms in railway station video.
- Proposed passenger flow forecast algorithm solution in high speed railway intelligent guidance system.

Tianjin University 2020 Oct - 2021 Jan
Global Rank (27/2207), 2020 CCF BDCI Remote Sensing Image Segmentation(BaiDu), Team Leader

- Proposed the ensemble method to deal with imbalance category, which can improve the accuracy by 12%.
- Proposed corrosion and expansion methods for connectivity in remote sensing.

TEACHING EXPERIENCE

Mathematical Foundations of Biomedical Engineering(Graduate), Teaching Assistant, USTC Fall 2022

Parallel Computing (Undergraduate), Teaching Assistant, TJU Fall 2021

Heterogeneous Computing (Undergraduate), Teaching Assistant, TJU Fall 2020

SELECTED HONORS & AWARDS

Graduate Scholarship - First Prize, USTC	2022
National Scholarship, Ministry of Education of China	2021
Graduate Scholarship - First Prize, TJU	2019, 2021
Tianjin Municipal People's Government Scholarship	2018
National Encouragement Scholarship, Ministry of Education of China	2017

OTHER ACTIVITIES

Tencent Rhinoceros Bird Research Camp, Excellent campers, Tement	2021
Microsoft Learn Student Ambassador (MLSA), Microsoft	2021
SKKU Winter International Student Experience (WISE), Sungkyunkwan University	2019 Jar