

Yichen Wang

☎ 18329942109 ✉ jerrywang11209991@gmail.com
☎ 940341746 💻 <https://jerryw1120.github.io/>
📅 1999-02



🎓 EDUCATION

Xidian University 2021.09 - 2024.06
Control Science and Engineering, Master , School of Artificial Intelligence Xi'an

- Tutor: [Prof. Dong Weisheng](#) (Changjiang Scholar)
- GPA:3.6 / 4.0 (Top 20%)

Xidian University 2017.09 - 2021.06
Information Security, Bachelor , School of Cyber Engineering Xi'an

- GPA:3.6 / 4.0 (Top 20%)

📖 PUBLICATION

Video Denoising Based on Maximum Posterior Probability 2021.11 - 2022.08
• [Deep Unfolding Network for Efficient Mixed Video Noise Removal](#)(IEEE T-CSVT Chinese Academy of Sciences Area 1 TOP Published)(Second author)

- The effective prior knowledge and neural network are designed for three kinds of noise in video (Gaussian noise, salt and pepper noise, impulse noise), and the multi-stage fusion network is designed by using the information between adjacent frames to reduce the amount of calculation and improve the denoising performance.

🕒 RESEARCH PROJECT

Cloud Edge Intelligent Collaboration Technology in Wireless Communication Environment 2023.06 - Present

- **Goal:** Development of the Cloud Edge Cooperative Intelligent Processing Framework, which allows for cooperative searching of typical vehicles and other targets.
- **Consigner:** School of Artificial Intelligence, Xidian University
- **Role:** Head of Research Project

Object Detection Based on Visual Learning: Transformer Environment Application 2022.08 - 2023.05

- **Goal:** Improvement of the detection accuracy of detecting oil leakage.
- **Achievement:** Based on YOLO V5 algorithm, a variety of data enhancement methods are applied to find oil leakage on a small data set (transformer picture sampling), which improves the detection accuracy from 39% (original algorithm) to 85.1%.
- **Consigner:** School of Artificial Intelligence, Xidian University
- **Role:** Head of Research Project

Restoration of Old Movie Noise 2021.11 - 2022.08

- **Goal:** Removing the Mixture of Additive White Gaussian Noise and Impulse Noise of Old Film's Frames by Using Convolutional Neural Networks
- **Advisor:** Prof. Weisheng Dong
- **Achievement:** [A Paper Accepted by T-CSVT](#) and a Patent(Pending)
- **Role:** Key Researcher

INTERNSHIP

Huawei Technologies Co., Ltd

2023.06 - 2023.08

AI Engineer (Intern)

Xi'an

Financial Fraud Prediction Based on Neural Network (Internship Rating: Outstanding Intern)

Contribution:

1. Study the classic cases of financial fraud, summarise the behaviours of fraud that are different from normal transactions, and generalise the typical fraud patterns from them
2. From the simulated transaction data, use PySpark and Pandas and other data analysis libraries to design the 60 features of fraudulent transactions
3. The features in the previous step are further organised and data-mined, and a feature matrix with time series is constructed
4. Used the obtained feature matrix to train various machine learning and neural network algorithms, and the recall rate was 87% for the highest

SELECTED AWARDS

Special prize of the fifth national cryptography competition	2019.11
School-level outstanding graduate students	Academic year 2021-2022
School-level second-class scholarship	Academic year 2021-2022
School-level third-class scholarship	Academic year 2018–2019、2019–2020
Outstanding Youth League Member	Academic year 2018–2019、2019–2020、2020-2021

SKILLS

- Proficiency in Python and PyTorch
- Familiar with [streamlit](#)、PySpark and HTML. I made the [home page](#) of our lab
- CET6: 481

RELEVANT SERVICES

Fighting against COVID-19 2021.12 - 2022.01

- **Organizer:** Xidian University
- **Role:** Volunteer

National Middle School Student Cyber Security Competition 2019.09 - 2021.07

- **Responsible Part:** Live Broadcast on 3 Platforms and Live Photography
- **Sponsor:** Office of Shaanxi Provincial Internet Information & Xidian University
- **Role:** Sponsor's Head of Students

College Administrative Affairs 2018.05 - 2021.06

- **Work for:** School of Cyber Engineering, Xidian University
- **Role:** Counselor assistant

College Publicity Work 2017.09 - 2021.06

- **Work for:** School of Cyber Engineering, Xidian University
- **Role:** Head Photographer

DURING FREE TIME

- Tennis、Photography(Some photos [here](#))、Piano、Basketball