

Yunxiao Wang

✉ yunxiao.wang@mail.sdu.edu.cn

📍 Jinan, China

💻 <https://yunxiao-wang.github.io>

👤 PhD student, Shandong University 📁 Multimedia Computing, Affective Computing



EDUCATION

Shandong University

Sep 2022

Artificial Intelligence, Doctor

- Advisor: Prof. Liqiang Nie and Prof. Meng Liu
- Awards: Graduate Academic Scholarship (2023), Second Prize of Freshmen Scholarship (2022)

Shandong University

Sep 2019 - Jun 2022

Computer Technology, Master

- Advisor: Prof. Liqiang Nie and Prof. Meng Liu
- Awards: Graduate Academic Scholarship (2020-2021), First Prize of Freshmen Scholarship (2019)

China University of Petroleum (East China)

Sep 2015 - Jun 2019

Internet of Things Engineering, Bachelor

- Awards: Excellent Graduate of China University of Petroleum (East China), First Prize of Academic Scholarship (2018), Third Prize of Academic Scholarship (2017), "Shengli Oil Talent" Scholarship (2016)

PROJECT EXPERIENCE

Product Nameplate Text Recognition

Oct 2018 - May 2019

Data Analysis Intern, Big Data Department, Weichai Power Co., LTD

- My task is to automatically input product information by utilizing natural scene text detection models like EAST, CTPN, and text recognition models like CRNN to detect and identify irregularly arranged words on the product nameplate.

Lightweight Detection of Hidden Dangers in Transmission Line

Jun 2019 - Feb 2020

Team Member, Cooperation Project with Zhiyang Innovation Technology Co., LTD.

- My task is to detect hidden dangers in transmission lines by utilizing lightweight convolutional neural networks such as ShuffleNet and MobileNet, as well as object detection models like Faster R-CNN.

RESEARCH EXPERIENCE

Siamese Alignment Network for Weakly Supervised Video Moment Retrieval

Apr 2022

First Author, Published by IEEE Transactions on Multimedia

- The task is to locate specific moments in a video based on a query description, without the need for temporal annotation.
- The contribution is the proposal of a Siamese alignment network that uses a multi-scale Siamese module to bridge the semantic gap between visual and textual modalities, and then enhances moment-query and video-query alignment with the context-aware multiple instance learning.

A Survey on Video Moment Localization

Jan 2023

Third Author, Published by ACM Computing Surveys

- This survey provides a comprehensive review of the existing techniques for video moment localization.
- I was responsible for collecting and arranging the literature, as well as contributing to a portion of the content.

Unlocking the Power of Multimodal Learning for Emotion Recognition in Conversation

Oct 2023

First Author, Published by ACM International Conference on Multimedia

- The task is to identify the emotions behind each utterance in a conversation using multiple modalities.
- The contributions include the observation that increasing the number of modalities does not consistently improve model performance, and experimentally confirming that the main reason is an imbalanced assignment of gradients across modalities. Furthermore, a plug-in approach named fine-grained adaptive gradient modulation is proposed to rebalance modality gradients.

PROFESSIONAL SERVICES

- Reviewer for IEEE Transactions on Knowledge and Data Engineering, IEEE Transactions on Circuits and Systems for Video Technology, IEEE Transactions on Multimedia, and Information Sciences.