Shuhong Ye

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EDUCATION

University of Nottingham Ningbo China

Ningbo, China

BSc Hons Computer Science with Artificial Intelligence

Nov 2018 - Jul 2023 (Expected)

Overall GPA: 4.0/4.0

Honors and Awards: Head's scholarship (2019)

Courses: Machine Learning (COMP3055 UNNC): A+, Computer Graphics (COMP3069 UNNC): A+

PUBLICATIONS

- [1] Weikai Kong*, **Shuhong Ye***, Chenglin Yao, Jianfeng Ren. Confidence-based Event-centric Online Video Question Answering on a Newly Constructed ATBS Dataset, accepted to **IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP '23).** (*equal first authors) [pdf] [project] [code] [dataset]
- [2] Shuhong Ye*, Weikai Kong*, Chenglin Yao, Jianfeng Ren, Xudong Jiang. Video Question Answering Using CLIP-Guided Visual-Text Attention, accepted to IEEE International Conference on Image Processing (ICIP '23). (*equal first authors) [pdf] [code]

EXPERIENCE

Video Question Answering Research Intern

Intelligent Simulation and Digital Port Lab

Ningbo, China

Jan 2022 - Jun 2023

Supervisor: Prof. Jianfeng Ren

- Defined a new set of problems called Online Open-ended Video Question Answering (O²VQA). Proposed a Confidence-based Event-centric Online Video Question Answering (CEO-VQA) model to solve the problem. Constructed a dataset to evaluate the online VideoQA application. Work published in ICASSP 2023. [1]
- Proposed a visual-text attention mechanism to utilize the Contrastive Language-Image Pre-training (CLIP) to guide the cross-modal learning for VideoQA and address the insufficient linguistic supervision problem. Work accepted to ICIP 2023. [2]

Virtual Reality Laparoscopic Surgery Simulation Research Intern

Ningbo, China

Intelligent Simulation and Digital Port Lab

Jul 2021 - Oct 2021

Supervisor: Prof. Ying Weng

• Developed a laparoscopic surgery training application with Unity and Steam VR SDK. Implemented soft tissue simulation for gallbladder and liver using Obi Physics packages.

Remote Sensing Image Processing Research Intern

Ningbo, China

UNNC School of Geographical Sciences

May 2021 - Jul 2021

Supervisor: *Prof. Meili Feng*

• Developed remote sensing image processing tools with Google Earth Engine API, Python and R for cloud removal and water Remote Sensing.

SELECTED COURSE PROJECT

A Framework for the Competition of Searching Algorithms

Nov 2021 - Apr 2022

Tech Leader, Software Engineering Group Project, supervised by Prof. Jiawei Li

Developed a framework to evaluate the performance of algorithms on 4 optimization problems, multi-armed bandits, bin packing, portfolio selection and job shop scheduling.

SKILLS

Programming Skills: Python, C/C++ **Technologies:** Pytorch, OpenGL, Unity, LATEX

Languages: TOEFL 100 (Speaking: 22, Writing: 25)