

Rongfeng WEI

Location: Hong Kong

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INTRODUCE MYSELF

I am a Junior Programmer at LSCM R&D Center, The University of Hong Kong. I received my BSc. degree from College of Computer and Data Science, Fuzhou University, China, supervised by [Xiao Ke](#), and Msc. degree from City University of Hong Kong at Department of Electronic Engineering, supervised by [Bernard Chiu](#).

EDUCATION

City University of Hong Kong

Master of Science in Multimedia Information Technology

GPA: 3.37/4.3, Credit

Hong Kong

Sep 2022 – Aug 2023

Fuzhou University(211)

Bachelor of Science in Computer Science

GPA: 82/100, top 30%

Fuzhou, China

Sep 2018 – June 2022

EXPERIENCE

Research Intern (Smart Surgical Safety System)

Centre for Artificial Intelligence and Robotics, Chinese Academy of Sciences

Advisor: Dr. Jinlin Wu and Prof. Zhen Chen

Hong Kong

May 2023 – Aug 2023

Research Assistant

Sun Yet-Sen University

Zhuhai, China

June 2022 – Aug 2022

RESEARCH

Multistream Fusion Segmentation and Classification of Prostate Lesions from MRI (2023)

[SPIE Medical Imaging](#)

- We integrated lesion segmentation and classification, allowing information flow between the two tasks. And the CAMs generated by classification improve segmentation.
- We extended the two-pass weakly supervised method to multiple modalities image classification and showed that the two-pass network has better classification performance than the one-pass network.

Visual Watermark Removal Based on Deep Learning (2022)

[Paper Link](#)

- We proposed a one-stage neural network named AdvancedUnet to extract and remove the visual watermark simultaneously. In each stage of the U-structure, we embed an effective RSU module instead of the original module in UNet, which enabled the network to learn deeper features and be more robust with multi-scale.
- A novel deep-supervised-hybrid loss that fused BCE, SSIM, and IoU in each stage is proposed to predict the mask of watermark more accurately. Our method surpassed the baseline (CVPR 2019) by a large margin.

Multiple Ship Tracking (2022)

[Paper Link](#)

- In this paper, we extensively explored the application of MOT in MST. Starting from traditional computer vision based methods to modern deep learning based methods, this paper not only emphasized the importance of traditional tracking architecture, but also explored the application of deep neural network.
- The SiamMOT we implemented had shown great strength, which paid more attention to the association part to enhance the capability of motion modeling.

COMPETITIONS AND HONORS

- [MICCAI 2023 Surgical Tool Localization in endoscopic videos](#) Rank.6
- The National Third Prize of 9th China Software Cup
- The Third Prize of 12th China University Student Service Outsourcing Innovation and Entrepreneurship Competition
- The First Prize of 11th Cross-Strait Information Service Innovation Competition
- Outstanding Student Leader of Fuzhou University
- The Second Prize of Fuzhou University Outstanding Student Scholarship
- The Second Prize of "UpTop" Scholarship