鞠睿阳 (Rui-Yang Ju)

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教育经历

台湾大学 台北市, 台湾

理学硕士: 资讯网络与多媒体研究所 2023.09 – 2025.06

- 总均分: **95.23/100**, GPA: **4.03/4.3**
- 实验室: **imLab**, 指导教授: **洪一平教授**

淡江大学 新北市, 台湾

工程学士: 电子与计算机工程系 2019.09 – 2023.06

- 总均分: **94.50/100**, GPA: **4.0/4.0**, 系排名: **1/68**
- 实验室: **AMOS Lab.**, 指导教授: **江正雄教授**

研究项目及成果

我的主要研究方向包括深度学习、神经网络、计算机视觉和图像处理。此外，我还参与了一些跨领域的项目，例如自然语言处理和语音处理。我已完成及正在进行的研究主要集中在以下项目:

三维头部高斯混合形变: 高斯混合形变、高斯喷溅、头部重建、头部动画、头部跟踪 2024 – 2025

- Rui-Yang Ju, Sheng-Yen Huang, Yi-Ping Hung, **"ToonifyGB: StyleGAN-based Gaussian Blendshapes for 3D Stylized Head Avatars"**, *arXiv preprint*, 2025.

儿科手腕创伤 X 光图像中的骨折检测: 医学图像处理、目标检测、YOLO、注意力机制 2023 – 2024

- Rui-Yang Ju, Chun-Tse Chien, Jen-Shiun Chiang, **"YOLOv8-ResCBAM: YOLOv8 Based on An Effective Attention Module for Pediatric Wrist Fracture Detection"**, *International Conference on Neural Information Processing* (*ICONIP*), Auckland, New Zealand, 2024. **(CCF C)** [arXiv] [GitHub]
- Rui-Yang Ju, Weiming Cai, **"Fracture Detection in Pediatric Wrist Trauma X-ray Images Using YOLOv8 Algorithm"**, *Scientific Reports*, 2023. **(SCI Q1; IF 3.8)** [arXiv] [DOI] [GitHub]

彩色退化文件图像二值化: 图像二值化、图像生成、生成对抗网络、离散小波变换 2022 – 2024

- Rui-Yang Ju, Yu-Shian Lin, Yanlin Jin, Chih-Chia Chen, Chun-Tse Chien, Jen-Shiun Chiang, **"Three-stage Binarization of Color Document Images Based on Discrete Wavelet Transform and Generative Adversarial Networks"**, *Knowledge-Based Systems*, 2024. **(SCI Q1; IF 7.2)** [arXiv] [DOI] [GitHub]
- Rui-Yang Ju, Yu-Shian Lin, Jen-Shiun Chiang, Chih-Chia Chen, Wei-Han Chen, Chun-Tse Chien, **"CCDWT-GAN: Generative Adversarial Networks Based on Color Channel Using Discrete Wavelet Transform for Document Image Binarization"**, *Pacific Rim International Conference on Artificial Intelligence* (*PRICAI*), Jakarta, Indonesia, 2023. **(CCF C)** [arXiv] [DOI] [GitHub]

图像超解析度: 图像修复、图像增强、Transformer、残差网络 2021 – 2022

- Rui-Yang Ju*, Chih-Chia Chen*, Jen-Shiun Chiang, Yu-Shian Lin, Wei-Han Chen (*=equal contribution), **"Resolution Enhancement Processing on Low Quality Images Using Swin Transformer Based on Interval Dense Connection Strategy"**, *Multimedia Tools and Applications (MTA)*, 2023. **(SCI Q2; IF 3.0)** [arXiv] [DOI] [GitHub]

荣誉及奖学金

- 台湾大学奖学金, 2023 – 2025, NT$32,000.
- 台湾大学 (imLab) 奖学金, 2024, NT$36,000.
- 中华国际财经创意交流协会 (SIBIA) 奖学金, 2021, 2022, 2024, US$900.
- 淡江大学科研奖学金, 2021 – 2022, NT$48,000.
- 淡江大学学业奖学金 (Top 1%), 2021, 2022, NT$20,000.