鞠睿阳 (Rui-Yang Ju)

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教育经历_____

台湾大学台湾大学台湾

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,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

研究方向 _____

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课题:

- [R5] 三维头像高斯混合形变: 计算机图形学、三维计算机视觉、高斯混合形变、高斯喷溅、面部动画、面部跟踪
- [R4] 三维面部表情重建: 计算机图形学、三维计算机视觉、图形渲染、面部重建、面部动画
- [R3] 彩色退化文件图像二值化:图像生成、图像增强、图像二值化、生成对抗网络、离散小波变换
- [R2] 儿科手腕创伤 X 光图像中的骨折检测: 医学图像处理、医学影像诊断、目标检测、YOLO、注意力机制
- [R1] 神经网络模型中层和块的连接策略: 图像分类、图像超分辨率、卷积神经网络、Transformer、残差学习

研究项目 _____

- [G2] 应用于建物裂缝侦测之人工智慧影像超解析度与语义分割技术研究与实现,台湾科学及技术委员会,由江正雄教授主持,2023 2025, NT\$1,756,000.
- [G1] 基于 Transformer 架构之高效率多特徵融合文件语义分割系统之研究,台湾科学及技术委员会,由江正雄教授主持,2022 2023, NT\$690,000.
- [G1] 改良式文件语义分割网络, 专题研究计划, 淡江大学研究发展处, 2021 2022, NT\$48,000.

出版物

期刊论文

- [J7] Chun-Tse Chien, Rui-Yang Ju, Kuang-Yi Chou, Enkaer Xieerke, Jen-Shiun Chiang, "YOLOv8-AM: YOLOv8 Based on Effective Attention Mechanisms for Pediatric Wrist Fracture Detection", IEEE Access, 2025. (IF 3.4) [arXiv] [DOI] [GitHub]
- [J6] 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. (IF 7.2) [arXiv] [D01] [GitHub]
- [J5] Chun-Tse Chien, Rui-Yang Ju, Kuang-Yi Chou, Jen-Shiun Chiang, "YOLOv9 for Fracture Detection in Pediatric Wrist Trauma X-ray Images", Electronics Letters, 2024. (IF 0.7) [arXiv] [DOI] [GitHub]
- [J4] Rui-Yang Ju, Weiming Cai, "Fracture Detection in Pediatric Wrist Trauma X-ray Images Using YOLOv8 Algorithm", Scientific Reports, 2023. (IF 3.8) [arXiv] [DOI] [GitHub]
- [J3] 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. (IF 3.0) [arXiv] [DOI] [GitHub]
- [J2] Rui-Yang Ju, Ting-Yu Lin, Jia-Hao Jian, Jen-Shiun Chiang, "Efficient Convolutional Neural Networks on Raspberry Pi for Image Classification", Journal of Real-Time Image Processing (JRTIP), 2023. (IF 2.9) [arXiv] [DOI] [GitHub]
- [J1] Rui-Yang Ju, Ting-Yu Lin, Jia-Hao Jian, Jen-Shiun Chiang, Wei-Bin Yang, "ThreshNet: An Efficient DenseNet Using Threshold Mechanism to Reduce Connections", IEEE Access, 2022. (IF 3.9) [arXiv] [DOI] [GitHub]

会议论文

- [C9] Yanlin Jin, Rui-Yang Ju, Haojun Liu, Yuzhong Zhong, "ORB-SfMLearner: ORB-Guided Self-supervised Visual Odometry with Selective Online Adaptation", IEEE International Conference on Robotics and Automation (ICRA), Atlanta, USA, 2025. [arXiv] [Project]
- [C8] Rui-Yang Ju, Chun-Tse Chien, Chia-Min Lin, Jen-Shiun Chiang, "Global Context Modeling in YOLOv8 for Pediatric Wrist Fracture Detection", International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), Kaohsiung, Taiwan, 2024. [arXiv] [DOI] [GitHub]
- [C7] Yanbing Bai, Siao Li, Rui-Yang Ju, Zihao Yang, Jinze Yu, Jen-Shiun Chiang, "FAD-SAR: A Novel Fishing Activity Detection System via Synthetic Aperture Radar Images Based on Deep Learning Method", International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), Kaohsiung, Taiwan, 2024. [arXiv] [DOI]
- [C6] 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. [arXiv] [GitHub]
- [C5] 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. [arXiv] [DOI] [GitHub]
- [C4] Rui-Yang Ju, Jen-Shiun Chiang, Chih-Chia Chen, Yu-Shian Lin, "Connection Reduction of DenseNet for Image Recognition", International Symposium on Intelligent Signal Processing and Communication Systems (ISPACS), Penang, Malaysia, 2022. [arXiv] [DOI] [GitHub]
- [C3] Rui-Yang Ju, Ting-Yu Lin, Jen-Shiun Chiang, "TripleNet: A Low-Parameter Network for Low Computing Power Platform", IET International Conference on Engineering Technologies and Applications (IET-ICETA), Changhua, Taiwan, 2022. [arXiv] [DOI] [GitHub]
- [C2] Rui-Yang Ju, Ting-Yu Lin, Jen-Shiun Chiang, Jia-Hao Jian, Yu-Shian Lin, Liu-Rui-Yi Huang, "Aggregated Pyramid Vision Transformer: Split-transform-merge Strategy for Image Recognition without Convolutions", IEEE International Conference on Consumer Electronics Taiwan (ICCE-TW), Taipei, Taiwan, 2022. [arXiv] [D0I]
- [C1] Rui-Yang Ju, Ting-Yu Lin, Jen-Shiun Chiang, "New Pruning Method Based on DenseNet Network for Image Classification", International Conference on Technologies and Applications of Artificial Intelligence (TAAI), Taichung, Taiwan, 2021.

 [arXiv] [DOI]

专利_

- [P2] Rui-Yang Ju, "可吸尘之装载装置", 台湾新型专利, TWM595589U, 2020.05. [Google Patents]
- [P1] Rui-Yang Ju, "可收纳烟蒂之烟盒", 台湾新型专利, TWM576794U, 2019.04. [Google Patents]

荣誉及奖学金 ______

荣誉

- [H3] 银牌 (前 4%), Google 通用图像嵌入挑战赛, ECCV 2022 竞赛, 2022.10
- [H2] 工学院大禹奖, 淡江大学, 2022.05
- [H1] 创新创业竞赛佳作奖, 淡江大学, 2021.05

奖学金

- [S5] 国立台湾大学奖学金, 2023 2025, NT\$25,000.
- [S4] 国立台湾大学 (imLab) 奖学金, 2024, NT\$36,000.
- [S3] 中华国际财经创意交流协会 (SIBIA) 奖学金, 2021, 2022, 2024, US\$900.
- [S2] 淡江大学科研奖学金, 2021 2022, NT\$48,000.
- [S1] 淡江大学学业奖学金 (Top 1%), 2021, 2022, NT\$20,000.