

RUI FANG

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EDUCATION

National Taiwan University , Graduate Institute of Communication Engineering Ph.D. at Network Database Laboratory.	2021 - Now Supervisor: Ming-Syan Chen
National Taipei University of Technology , Graduate Institute of Manufacturing Technology M.S. at Advanced Microsystems and Device Laboratory.	2018 - 2021 Supervisor: Chih-Cheng Lu
National Taipei University of Technology , Collage of Mechanical & Electrical Engineering B.S. Mechanical Engineering.	2014 - 2018

PUBLICATIONS & PREPRINTS

- A visually interpretable detection method combines 3-D ECG with a multi-VGG neural network for myocardial infarction identification** [\[link\]](#)
R. Fang, C. C. Lu, C. T. Chuang, W. H. Chang.
Computer Methods and Programs in Biomedicine (SCI Q1, JCR Q2+Top), 2022.
- Dual-Triangular QR Decomposition with Global Acceleration and Partially Q-Rotation Skipping** [\[link\]](#)
R. Fang, S. Jiang, H. W. Chen, W. Ding, M. S. Chen.
International Conference on Field-Programmable Technology (ICFPT, CCF-C), 2022.
- BiLEE: Bi-Level Early Exiting for Generative Document Retrieval** [\[link\]](#)
R. Fang, C. Y. Yeh, H. W. Chen, M. S. Chen.
European Conference on Artificial Intelligence (ECAI, CCF-B), 2024.
- Dual Alignment Framework for Few-shot Learning with Inter-Set and Intra-Set Shifts** [\[link\]](#)
S. Jiang, **R. Fang**, H. W. Chen, W. Ding, M. S. Chen.
Annual Conference on Neural Information Processing Systems (NeurIPS, CCF-A), 2025.
- LoGIC: Multi-LoRA Guided Importance Consensus for Multi-Task Pruning in Vision Transformers** [\[link\]](#)
Y.-H. Chou*, **R. Fang***, H.-W. Chen, M.-S. Chen.
Proceedings of the AAAI Conference on Artificial Intelligence (AAAI, CCF-A), 2026.
- Learning What to Write: Write-Gated KV for Efficient Long-Context Inference** [\[link\]](#)
Y.-C. Huang, **R. Fang**, M.-S. Chen, P.-C. Hsiu.
arXiv preprint arXiv:2512.17452, 2025.

PROFESSIONAL ACTIVITY

Conference Reviewer for CVPR, ICML, IJCAI, ECAI, ECCV, etc.

RESEARCH INTERESTS

Efficient Deep Learning for Transformers (2024–Present)

Efficient computation for Transformers to enable scalable, low-latency inference without sacrificing performance. Including dynamic LLM inference (*BiLEE*, *ECAI 2024*), pruning ViT with LoRA-guided importance consensus (*LoGIC*, *AAAI 2026*), and KV-cache compression for long-context inference (*WGKV*, *arXiv 2025*).

Few-Shot Learning under Distribution Shifts (2023–2024)

Dual alignment and OT-based feature calibration for robust few-shot adaptation under inter-/intra-set shifts (*DuAL*, *NeurIPS 2025*).

Interpretable ECG Diagnosis (2019–2021)

Interpretable 3-D ECG deep models for myocardial infarction detection (*CMPB 2022*).

*Equal contribution.