Erting Pan

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BIOGRAPHY

> I am a final-year Ph.D. candidate in *the Lab of Multi-Spectral Vision Processing, Wuhan University*. My research pursues to model multi-modal and multi-dimensional data and develop cutting-edge solutions to empower next-generation intelligent perception. It primarily unfolds on two complementary levels: (a) computational imaging fundamentals; (b) application-oriented projects.

> **Featured Research Topics:** Multi-modal Image Fusion; Image Synthesis; Image Restoration & Reconstruction; Pixel-level Image Classification

EDUCATION

Jun. 2024 Sep. 2020	*Wuhan University (WHU)*, Electronic Information School **Ph.D.** in Signal and Information Processing	Wuhan, China
Jun. 2020 Sep. 2018	*Wuhan University (WHU)*, Electronic Information School **M.Eng.** in Electronic and Communication Engineering	Wuhan, China
Jun. 2018 Sep. 2014	*Northeast Normal University (NENU)*, Physics School **B.Eng.** in Electrical Engineering and its Automation	Changchun, China

PUBLICATIONS

Note: For a full list of publications please see Google Scholar.

1. **Erting Pan**, Yang Yu, Xiaoguang Mei, Jiayi Ma. From the Abundance Perspective: Multi-modal Scene Fusion-based Hyperspectral Image Synthesis, *Information Fusion*, 2024.

2. Yang Yu*, **Erting Pan***, Xinya Wang, Yuheng Wu, et. al. Unmixing before Fusion: A Generalized Paradigm for Multi-source-based Hyperspectral Image Synthesis, in IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), Seattle, WA, USA, Jun.2024.

3. **Erting Pan**, Yong Ma, Xiaoguang Mei, Fan Fan, Jiayi Ma. Hyperspectral Image Destriping and Denoising from A Task Decomposition View, *Pattern Recognition* (**PR**), 2023.

4. **Erting Pan**, Yong Ma, Xiaoguang Mei, Fan Fan, Jiayi Ma. Progressive Hyperspectral Image Destriping with An Adaptive Frequencal Focus, *IEEE Transactions on Geoscience and Remote Sensing* (**TGRS**), 2023.

5. **Erting Pan**, Yong Ma, Xiaoguang Mei, Fan Fan, Jiayi Ma. Hyperspectral Image Denoising via Spectral Noise Distribution Bootstrap, *Pattern Recognition* (**PR**), 2023.

6. **Erting Pan**, Yong Ma, Xiaoguang Mei, Jun Huang, Fan Fan, Jiayi Ma. D2Net: Deep Denoising Network in Frequency Domain for Hyperspectral Image, *IEEE/CAA Journal of Automatica Sinica* (**JAS**), 2023.

7. **Erting Pan**, Yong Ma, Xiaoguang Mei, Fan Fan, Jun Huang, Jiayi Ma. SQAD: Spatial-Spectral Quasi-Attention Recurrent Network for Hyperspectral Image Denoising, *IEEE Transactions on Geoscience and Remote Sensing* (**TGRS**), 2022.

8. **Erting Pan**, Yong Ma, Fan Fan, Xiaoguang Mei, Jun Huang. Hyperspectral Image Classification across Different Datasets: A Generalization to Unseen Categories, *Remote Sensing*, 2021.

9. **Erting Pan**, Yong Ma, Xiaoguang Mei, Fan Fan, Jiayi Ma. Unsupervised Stacked Capsule Autoencoder for Hyperspectral Image Classification, in IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**), Toronto, Canada, Jun.2021. *Oral Presentation*

10. **Erting Pan**, Yong Ma, Jun Huang, Fan Fan, Hao Li, Xiaoguang Mei, Jiayi Ma. Hyperspectral Image Classi-

fication Based on Zero-shot Learning, in the 5th Symposium on Hyperspectral Imaging Technology and Applications, Shanghai, China, Oct.2020. *Oral Presentation*

11. **Erting Pan**, Xiaoguang Mei, Quande Wang, Yong Ma, Jiayi Ma. Spectral-Spatial Classification for Hyperspectral Image Based on A Single GRU, *Neurocomputing*, 2020.

12. Xiaoguang Mei, **Erting Pan**, Yong Ma, Xiaobing Dai, Jun Huang, et al.. Spectral-Spatial Attention Network for Hyperspectral Image Classification, *Remote Sensing*, 2019. *ESI highly cited paper*

13. **Erting Pan**, Yong Ma, Xiaobing Dai, Fan Fan, Jun Huang, Xiaoguang Mei, Jiayi Ma. GRU with Spatial Prior for Hyperspectral Image Classification, in IEEE International Geoscience and Remote Sensing Symposium (**IGARSS**), Yokohama, Japan, Jul.2019. *Oral Presentation*

14. **Erting Pan**, Yong Ma, Xiaobing Dai, Fan Fan, Jun Huang, Xiaoguang Mei, Jiayi Ma. Spectral-Spatial Classification for Hyperspectral Image Based on A Joint Attention Network, in IEEE International Geoscience and Remote Sensing Symposium (**IGARSS**), Yokohama, Japan, Jul.2019. *Oral Presentation*

PROFESSIONAL SERVICES

Journal Reviewer	Information Fusion IEEE Transactions on Image Processing (TIP) IEEE/CAA Journal of Automatica Sinica (JAS) IEEE Transactions on Geoscience and Remote Sensing (TGRS) Neural Networks Neurocomputing	
Student Editor	*Geo-Spatial Information Science* (SCI, JCR Q1, IF=6.0)	2022∼Now
Teaching	*Engineering Stochastic Mathematics*, Undergraduate course in WHU	2021 Fall
Mentoring	Co-mentoring and coaching research interns and junior team members	2020∼Now

TECHNICAL STRENGTHS

Programming	Python; Matlab; C++/C; LaTeX
DL Framework	PyTorch; Tensorflow; Keras
Language	Native in Chinese Mandarin; Proficient in English

HONOR & AWARDS

> **Contest Rewards**
- *Bronze Medalist* in the 18th China Postgraduate Mathematical Contest in Modeling — Dec.2021
- *Runner-up* in the 17th China Postgraduate Mathematical Contest in Modeling — Dec.2020
- *Bronze Medalist* in Tianchi Global Data Intelligence Competition — Sep.2019

> **Honors**
- Excellent Postgraduate in WHU — 2021∼22
- Merit Undergraduate in NENU — Oct.2016

> **Scholarships**
- *Lei Jun* Scholarship in WHU — Dec.2023
- *Ruan Liping* Postgraduate Scholarship in WHU — Dec.2022
- *Huawei* Postgraduate Scholarship in WHU — Dec.2021
- Outstanding Academic Scholarship (Grade 1, 3 times) in WHU — 2019∼22
- The First-Class Scholarship, Outstanding Student Cadres Scholarship in NENU — Oct.2016