Jie Feng (Professor)

School of Artificial Intelligence, Xidian University
No. 266 Xinglong Section of Xifeng Road
Xi'an, Shaanxi Province, China, 710126
Homepage:https://web.xidian.edu.cn/fengjie/index.html
E-mail: jiefeng0109@163.com

I. Research interests

- Remote sensing video processing
- Multi-source remote sensing image fusion
- Cross-domain hyperspectral image analysis

II. Professional Experience

2022.08 – present	School of Artificial Intelligence, Xidian University, Professor, Doctoral supervisor
2018.01 – 2022.07	School of Artificial Intelligence, Xidian University, Associate professor, Doctoral supervisor
2017.07 – 2017.12	School of Electronic Engineering, Xidian University, Associate professor, Master supervisor
2015.01 – 2017.06	School of Electronic Engineering, Xidian University, Lecturer

III. Education

2009.09 - 2014.12	M.S. and Ph.D. in Circuits and Systems Xidian University, Xi'an, Shaanxi, China
2004.09 - 2008.07	B.S. in Electronic and Information Engineering Chang'an University, Xi'an, Shaanxi, China

IV. Representative Publications

Focused on remote sensing data processing under restricted conditions, we have broken through key technologies such as spatiotemporal spectral representation of heterogeneous remote sensing data, high generalization learning with few sample, dense and weak object localization and correlation. Our research results have been published in over 100 academic papers, including 48 papers in IEEE Trans. journals and CCF A-class academic papers, including **30 IEEE TGRS papers, 4 J-STARS papers, and 9 ESI highly cited/hot topic papers**. We have been selected for two consecutive years in the “Top 2% Global Scientists List” published by Stanford University in the United States. The five most representative papers are listed as:

1. **Jie Feng**, Tianshu Zhang, Junpeng Zhang, Ronghua Shang, Weisheng Dong, Guangming Shi, Licheng Jiao. S4DL: Shift-sensitive spatial-spectral disentangling learning for

hyperspectral image unsupervised domain adaptation. **IEEE Trans. on Neural Networks and Learning Systems**, 2025，DOI:10.1109/TNNLS.2025.3556386.

2. **Jie Feng**, Yuping Liang, Xiangrong Zhang, Junpeng Zhang, Licheng Jiao: SDANet: Semantic-Embedded Density Adaptive Network for Moving Vehicle Detection in Satellite Videos. **IEEE Trans. Image Process**. 32: 1788-1801 (2023).
3. **Jie Feng**, Ziyu Zhou, Ronghua Shang, Jinjian Wu, Tianshu Zhang, Xiangrong Zhang, Licheng Jiao: Class-aligned and class-balancing generative domain adaptation for hyperspectral image classification. **IEEE Trans. Geosci. Remote. Sens.**, 62: 1-17 (2024) (***ESI Highly Cited Paper***).
4. **Jie Feng**, Di Li, Jing Gu, Xianghai Cao, Ronghua Shang, Xiangrong Zhang, Licheng Jiao: Deep reinforcement learning for semisupervised hyperspectral band selection. **IEEE Trans. Geosci. Remote. Sens.**, 60: 1-19 (2022) (***ESI Highly Cited and Hot Topic Paper***).
5. **Jie Feng**, Jiantong Chen, Liguo Liu, Xianghai Cao, Xiangrong Zhang, Licheng Jiao, Tao Yu: CNN-based multilayer spatial-spectral feature fusion and sample augmentation with local and nonlocal constraints for hyperspectral image classification. **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing**, 12(4): 1299-1313 (2019).

V. Awards

2025	Young Changjiang Scholars from the Ministry of Education
2025	Shaanxi Provincial Fund for Distinguished Young Scholars
2024	EEE TGRS Best Reviewer Award
2021 and 2024	IEEE JSTARS Best Reviewer Award
2023	Stanford University's List of World's Top 2% Scientists
2022	Shaanxi Provincial Young Talents Program
2024	Second Prize of science and Technology Progress Award, China Aerospace Science and Technology Corporation
2021	China Association for Science and Technology Youth Talent Support Project
2021	Young Science and Technology Rising Stars in Shaanxi Province
2022	Advisor for International First Prize Winner, Mathematical Contest in Modeling (MCM), COMAP

VI. Professional Activities

A. Journal Editor

- Remote Sensing, Editorial Board Member and Guest Editor
- Frontiers in Imaging, Associate editor
- Journal of Information and Intelligence, Young Editorial Board Member

B. Social Activities

- Council Member, Young Scientists Club of the Chinese Institute of Electronics (CIE)
- Executive Area Chair Committee Member, 7th Vision and Learning Seminar
- Session Chair, Chinese Conference on Image and Graphics (CCIG 2025)
- Area Chair, Chinese Conference on Pattern Recognition and Computer Vision (PRCV 2023, 2024)

- Session Chair, IEEE International Geoscience and Remote Sensing Symposium (IGARSS 2023)
- Session Chair, Annual Conference on Photogrammetry and Remote Sensing
- Committee Member, Remote Sensing Image Technical Committee of China Society of Image and Graphics (CSIG)

VII. *Academic Activities*

- Remote Sensing Young Scientists Salon 2025, Invited Report
- Chinese Conference on Image and Graphics (CCIG 2024), Invited Report
- The 6th National Symposium on Imaging Spectroscopy for Earth Observation, 2021, Invited Report
- IEEE 7th International Conference on Electronic Information and Communication Technology (ICEICT 2024), Invited Report
- CSIG Image & Graphics China Tour – Sun Yat-sen University, 2024, Invited Report
- The 2nd National Forum on Cognitive Innovation and Industry for Situation Awareness, 2024, Invited Report

VIII. Projects (As PI)

A. Remote sensing video multi-target detection and tracking based on deep learning

- Research on scene Semantic understanding of remote sensing video based on dynamic hypergraph. (Source: National Natural Science Foundation of China, Duration: 2023.01-2026.12)
- Remote sensing video multi-target detection and tracking based on deep GAN and reinforcement learning. (Source: National Natural Science Foundation of China, Duration: 2019.01-2022.12)
- Remote sensing video multi-target detection and tracking in complex environment. (Source: Joint Fund of Equipment Research of Ministry of Education, Duration: 2019.01-2020.12)
- Remote sensing video multi-target detection and tracking based on GAN and cubature Kalman filter. (Source: Basic research program of natural science, Duration: 2019.01-2020.12)
- Port ship target detection and anomaly analysis. (Source: Technology Development Project by China Shipbuilding Qingdao Research Institute, Duration: 2024.03-2025.07)

B. Multi-source remote sensing image analysis based on large models

- Research on on-orbit joint interpretation technology integrating multi-source remote sensing image. (Source: Military Science Commission Basic Strengthening Program Technical Domain Fund, Duration: 2021.01-2024.12)
- Intelligent learning and interpretation of remote sensing images and videos. (Source: Shaanxi Provincial Outstanding Youth Science Fund Project, Duration: 2025.01-2027.12)
- Cross-modal remote sensing image scene understanding. (Source: Technology Development Project by Shanghai Aerospace Measurement and Communication Research Institute, Duration: 2021.01-2023.07)
- Remote sensing data-based construction lane change technology, (Source: Technology Development Project by China Construction Eighth Engineering Division Co., Ltd., Duration: 2022.01-2023.12)