Feng Gao (高峰)

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Appointment

- **Ocean University of China** — Qingdao, China
  Associate Professor — *2019 - Present*
  - Department of Computer Science and Engineering

Education

- **Ocean University of China** — Qingdao, China
  Postdoc. Computer Science — *2015 - 2018*
  - Department of Computer Science and Engineering
- **Beihang Univeristy** — Beijing, China
  Ph.D. Computer Science — *2010 - 2015*
  - School of Computer Science and Engineering
- **Beihang Univeristy** — Beijing, China
  M. Eng. Computer Science — *2008 - 2010*
  - School of Computer Science and Engineering
- **Chongqing Univeristy** — Chongqing, China
  B. Eng. Software Engineering — *2004 - 2008*
  - School of Big Data & Software Engineering

Research Interests

- **Deep learning:** Convolutional Neural Networks, Deep Autoencoder for Image Analysis, Deep Ensemble Learning, Generative Adversarial Networks
- **Efficient Feature Learning:** Heterogeneous Feature Learning, Unsupervised Feature Selection, Deep Feature Learning, Metric Learning
- **Remote Sensing Image Interpretation:** SAR Image Change Detection, Hyperspectral Image Classification, Hyperspectral Unmixing, Polar Sea Ice Analysis

Selected Publications

Journal Papers

- **Feng Gao**, Qun Wang, Junyu Dong, Qizhi Xu. Spectral and spatial classification of hyperspectral images based on random multi-graphs. *Remote Sensing*, 2018, vol. 10, issue 8, pages 1–20, 2018.
- **Feng Gao**, Xiao Wang, Junyu Dong, Shengke Wang. SAR image change detection based on frequency domain analysis and random multi-graphs. *Journal of Applied Remote Sensing*, vol. 12, issue 1, 016010, 2018.

- **Feng Gao**, Xiaopeng Liu, Junyu Dong, Guoqiang Zhong, Muwei Jian. Change detection in SAR images based on deep Semi-NMF and SVD networks. *Remote Sensing*, vol. 9, issue 5, pages 1–20, 2017.
- Xin Sun, Fei Zhou, Junyu Dong, **Feng Gao**, Quanquan Mu, Xinhua Wang. Encoding Spectral and Spatial Context Information for Hyperspectral Image Classification. *IEEE Geoscience and Remote Sensing Letters*, vol. 14, issue 12, pages 2250–2254, 2017.
- **Feng Gao**, Junyu Dong, Bo Li, Qizhi Xu, Cui Xie. Change detection from synthetic aperture radar images based on neighborhood-based ratio and extreme learning machine. *Journal of Applied Remote Sensing*, vol. 10, issue 4, 046019, 2016.
- **Feng Gao**, Junyu Dong, Bo Li, Qizhi Xu. Automatic Change Detection in Synthetic Aperture Radar Images Based on PCANet. *IEEE Geoscience and Remote Sensing Letters*, vol. 13, issue 12, pages 1792–1796, 2016
- **Feng Gao**, Bo Li, Qizhi Xu, Robust aircraft segmentation from VHR images based on bottom-up and top-down cues integration. *Journal of Applied Remote Sensing*, vol. 10, issue 1, 016003, 2016.
- **Feng Gao**, Bo Li, Qizhi Xu, Chen Zhong, Moving vehicle information extraction from single-pass WorldView-2 imagery based on ERGAS-SNS analysis, *Remote Sensing*, vol. 6, issue 7, pages 6500–6523, 2014.

Conference Papers

- Xiao Wang, **Feng Gao**, Junyu Dong, Shengke Wang. Sea ice change detection from SAR images based on canonical correlation analysis and contractive autoencoders, *The Pacific-Rim Conference on Multimedia* (PCM), pages 48–757, 2018.
- Dong Wang, **Feng Gao**, Junyu Dong, Shengke Wang. Sea ice classificaiton from hyperspectral images based on self-paced boost learning, *IEEE International Geoscience and Remote Sensing Symposium* (IGARSS), 2018.
- Yunhao Gao, **Feng Gao**, Junyu Dong, Shengke Wang. Sea ice change detection in SAR images based on collaborative representation, *IEEE International Geoscience and Remote Sensing Symposium* (IGARSS), 2018.
- Yandong Li, **Feng Gao**, Junyu Dong, Shengke Wang. A novel sea ice classification method from hyperspectral image based on bagging PCA hashing, *International Workshop on Earth Observation and Remote Sensing Applications* (EORSA), 2018.
- Qun Wang, **Feng Gao**, Junyu Dong, Sea ice change detection from synthetic aperture radar images based on self-paced boosting learning, *International Workshop on Earth Observation and Remote Sensing Applications* (EORSA), 2018.

Professional Associations

- Institute of Electrical and Electronics Engineers (IEEE)
- China Computer Federation (CCF)
- CCF Young Computer Scientists & Engineers Forum (YOCSEF)

Computer & Skills

- **Software:** Microsoft Office Series, Visual Studio
- **Program Languages:**
  - Proficient: C, C++, Matlab
  - Familiar with: Python, OpenCV, HTML, CSS