张 强

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大连海事大学 信息科学技术学院
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个人简历

张强，1995年生，辽宁大连人，大连海事大学信息科学技术学院兴海副教授/讲师，硕士生导师，研究方向为遥感信息处理、计算机视觉与机器学习。在国内外期刊和会议上共发表学术论文20余篇，其中以第一作者在IEEE TIP、IEEE TNNLS、IEEE TGRS、ISPRS P&RS、ESSD等图像处理/遥感/机器学习/地学领域的顶级期刊上发表SCI论文12篇。谷歌学术总引用1200余次，单篇一作最高被引300余次，3篇入选为ESI高被引论文。曾担任国际地学与遥感大会分会场主席，以及RSE、IEEE TIP/TGRS/TCSVT等国际期刊审稿人。先后荣获李小文遥感科学青年奖、武汉大学"研究生学术创新奖"特等奖（校长奖）、王之卓创新人才特等奖、大连市高层次人才青年才俊等奖项荣誉。

研究方向

- **遥感信息处理与应用**： 高光谱遥感、多时相遥感、海洋遥感、定量遥感
- **计算机视觉**： 图像复原、图像融合、图像超分、底层视觉信息处理
- **机器学习**： 深度学习、张量表达、耦合数据驱动与模型驱动

工作经历

- 2022.07 - 至今，大连海事大学，信息科学技术学院，兴海副教授

教育经历

- 2019.09 - 2022.06，武汉大学，摄影测量与遥感专业，导师：张良培教授、袁强强教授   博士
- 2017.09 - 2019.06，武汉大学，摄影测量与遥感专业，导师：袁强强教授   硕士
- 2013.09 - 2017.06，武汉大学，测绘工程专业，导师：袁强强教授   学士

科研项目

- **中央高校基本科研业务费**：遥感高时-空-谱一体化信息融合方法研究，017231162，2023/01-2023/12，主持
- **大连海事大学人才启动经费**：优秀青年人才引进项目，02500363，2022/07-2025/07，主持

教学课程

- **本科生课程**：2022-2023学年第2学期，64学时，《离散数学》

期刊论文

[16] **Q. Zhang**, Y. Zheng, Q. Yuan, M. Song, H. Yu, and Y. Xiao, "Hyperspectral image denoising: From model-driven, data-driven, to model-data-driven," *IEEE Transactions on Neural Networks and Learning Systems*, in press,

2023. (SCI 1区, 机器学习领域**Top**期刊, IF=10.4)

[15] **Q. Zhang**, Y. Dong, Q. Yuan, M. Song, and H. Yu, "Combined deep priors with low-rank tensor factorization for hyperspectral image restoration," *IEEE Geoscience and Remote Sensing Letters*, vol. 20, pp. 1-5, 2023. (SCI 2区, IF=4.8)

[14] **Q. Zhang**, Q. Yuan, M. Song, H. Yu, and L. Zhang, "Cooperated spectral low-rankness prior and deep spatial prior for HSI unsupervised denoising," *IEEE Transactions on Image Processing*, vol. 31, pp. 6356-6368, 2022. (SCI 1区, **CCF-A**, 图像处理领域**Top**期刊, IF=10.6)

[13] **Q. Zhang**, Q. Yuan, T. Jin, M. Song, and F. Sun, "SGD-SM 2.0: an improved seamless global daily soil moisture long-term dataset from 2002 to 2022," *Earth System Science Data*, vol. 14, no. 10, pp. 4473–4488, 2022. (SCI 1区, 地学领域**Top**期刊, IF=11.4)

[12] **Q. Zhang**, Q. Yuan, J. Li, Y. Wang, F. Sun, and L. Zhang, "Generating seamless global daily AMSR2 soil moisture (SGD-SM) long-term products for the years 2013-2019," *Earth System Science Data*, vol. 13, no. 3, pp. 1385-1401, 2021. (SCI 1区, 地学领域**Top**期刊, IF=11.4)

[11] **Q. Zhang**, Q. Yuan, Z. Li, F. Sun, and L. Zhang, "Combined deep prior with low-rank tensor SVD for thick cloud removal in multitemporal images," *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 177, pp. 161-173, 2021. (SCI 1区, 遥感领域**Top**期刊, IF=12.7)

[10] **Q. Zhang**, Q. Yuan, J. Li, F. Sun, and L. Zhang, "Deep spatio-spectral Bayesian posterior for hyperspectral image non-i.i.d. noise removal," *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 164, pp. 125-137, 2020. (SCI 1区, 遥感领域**Top**期刊, IF=12.7)

[09] **Q. Zhang**, Q. Yuan, J. Li, Z. Li, H. Shen, and L. Zhang, "Thick cloud and cloud shadow removal in multitemporal images using progressively spatio-temporal patch group deep learning," *ISPRS Journal of Photogrammetry and Remote Sensing*, vol. 162, pp. 148-160, 2020. (SCI 1区, 遥感领域**Top**期刊, IF=12.7)

[08] **Q. Zhang**, Q. Yuan, J. Li, X. Liu, H. Shen, and L. Zhang, "Hybrid noise removal in hyperspectral imagery with spatial-spectral gradient network," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 57, no. 10, pp. 7317-7329, 2019. (SCI 1区, 遥感领域**Top**期刊, IF=8.2)

[07] **Q. Zhang**, Q. Yuan, C. Zeng, X. Li, and Y. Wei, "Missing data reconstruction in remote sensing image with a unified spatial-temporal-spectral deep network," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 56, no. 8, pp. 4274-4288, 2018. (SCI 1区, 遥感领域**Top**期刊, IF=8.2, **ESI**高被引论文)

[06] **Q. Zhang**, Q. Yuan, J. Li, Z. Yang, and X. Ma, "Learning a dilated residual network for SAR image despeckling," *Remote Sensing*, vol. 10, no. 2, 196, 2018. (SCI 2区, IF=5)

[05] Q. Yuan, **Q. Zhang**, J. Li, H. Shen, and L. Zhang, "Hyperspectral image denoising employing a spatial-spectral deep residual convolutional neural network," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 57, no. 2, pp. 1205-1218, 2019. (SCI 1区, 遥感领域**Top**期刊, IF=8.2, **ESI**高被引论文)

[04] Y. Xiao, Q. Yuan, **Q. Zhang**, and L. Zhang, "Deep blind super-resolution for satellite video," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 61, pp. 1-16, 2023. (SCI 1区, 遥感领域**Top**期刊, IF=8.2)

[03] Y. Xiao, Q. Yuan, J. He, **Q. Zhang**, X. Su, and L. Zhang, "Space-time super-resolution for satellite video: A joint framework based on multi-scale spatial-temporal transformer," *International Journal of Applied Earth Observation and Geoinformation*, vol. 108, 102731, 2022. (SCI 1区, 遥感领域**Top**期刊, IF=7.5, **ESI**高被引论文)

[02] W. Zhang, Z. Li, H. Sun, **Q. Zhang**, P. Zhuang, and C. Li, "SSTNet: Spatial, spectral, and texture aware attention network using hyperspectral image for corn variety identification," *IEEE Geoscience and Remote Sensing Letters*, vol. 19, pp. 1-5, 2022. (SCI 2区, IF=4.8)

[01] J. Lin, T. Huang, X. Zhao, Y. Chen, **Q. Zhang**, and Q. Yuan, "Robust thick cloud removal for multi-temporal

remote sensing images using coupled tensor factorization,*" IEEE Transactions on Geoscience and Remote Sensing*, vol. 60, pp. 1-16, 2022. (SCI 1区, 遥感领域**Top**期刊, IF=8.2)

会议论文

[05] **Q. Zhang**, and J. Zhu, "Early wildfire detection based on temporal, spatial and spectral information fusion,*" IGARSS*, in Pasadena, USA, 2023. (EI, Poster)

[04] **Q. Zhang**, F. Sun, Q. Yuan, and L. Zhang, "Thick cloud removal for Sentinel-2 time-series images via combining deep prior and low-rank tensor completion,*" IGARSS*, in Brussels, Belgium, 2021. (EI, **Oral**)

[03] **Q. Zhang**, F. Sun, Q. Yuan, J. Li, H. Shen, and L. Zhang, "Combined the data-driven with model-driven stragegy: A novel framework for mixed noise removal in hyperspectral image,*" IGARSS*, in Hawaii, USA, 2020. (EI, **Oral**)

[02] **Q. Zhang**, Q. Yuan, J. Li, H. Shen, and L. Zhang, "Cloud and shadow removal for Sentinel-2 by progressively spatiotemporal patch group learning,*" IGARSS*, in Yakohama, Japan, 2019. (EI, **Oral**)

[01] **Q. Zhang**, Q. Yuan, H. Shen, and L. Zhang, "A unified spatial-temporal-spectral learning framework for reconstructing missing data in remote sensing images,*" IGARSS*, in Valencia, Spain, 2018. (EI, Poster)

学术兼职

学会兼职：

● IEEE, 会员

● 中国图象图形学学会, 会员

● 中国图象图形学学会遥感图像专业委会, 委员

会议组织：

● 2023年全国热红外遥感大会, **组织委员会委员**

● 2021年国际地学与遥感大会 (IGARSS), **分会场主席**

期刊审稿人：

● Remote Sensing of Environment (**RSE**)

● IEEE Transactions on Image Processing (**TIP**)

● IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**)

● IEEE Transactions on Geoscience and Remote Sensing (**TGRS**)

● IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**)

● IEEE Transactions on Emerging Topics in Computational Intelligence (**TETCI**)

● IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (**JSTARS**)

● IEEE Geoscience and Remote Sensing Letters (**GRSL**)

● IEEE Access

● Climatic Change

● Neurocomputing

● Electronics Letters

● Analytical Methods

● IET Image Processing

● Imaging Science Journal

● Evolutionary Intelligence

● Science of Remote Sensing

● Journal of Applied Remote Sensing

● Wireless Communications and Mobile Computing

奖项荣誉

- 2023年，大连市高层次人才青年才俊
- 2022年，大连海事大学"兴海"高层次人才
- 2022年，武汉大学十大杰出青年 (学生)
- 2022年，武汉大学优秀毕业研究生
- 2021年，李小文遥感科学青年奖
- 2021年，博士研究生国家奖学金
- 2021年，第六届全国成像光谱对地观测学术研讨会优秀报告奖
- 2021年，武汉大学优秀研究生标兵
- 2021年，武汉大学学业奖学金一等奖
- 2020年，武汉大学"研究生学术创新奖"特等奖 (校长奖)
- 2020年，中国大学生自强之星
- 2020年，湖北省大学生自强之星标兵
- 2020年，王之卓创新人才奖特等奖
- 2020年，武汉大学学业奖学金一等奖
- 2020年，武汉大学优秀研究生
- 2019年，武汉大学光华奖学金
- 2019年，武汉大学十大励志之星
- 2018年，硕士研究生国家奖学金
- 2018年，武汉大学乐群学术之星
- 2018年，武汉大学学业奖学金一等奖
- 2017年，武汉大学优秀本科毕业生
- 2015年，国家励志奖学金