项德良，1989年4月生，教授，德国洪堡学者，入选国家级青年人才托举工程人才计划，全军优秀博士学位论文获得者、北京化工大学高层次人才。2006-2016年在武汉大学，国防科技大学获得遥感科学与技术专业本科、摄影测量与遥感专业硕士、信息与通信工程专业博士学位。2014-2016年在瑞典皇家理工学院获得测地学与地理信息处理专业博士学位。2020年入职北京化工大学工作至今，主要讲授《深度学习》、《人工智能导论》、《多源信息融合》等课程。主要研究方向为微波遥感信息处理、人工智能算法、遥感原理与应用等。现主持国家自然科学基金青年和面上项目、重点实验室基金项目等。近五年发表文章70余篇，申请发明专利15项。其中以第一/通讯作者在ISPRS&PRS、IEEE TGRS等遥感领域顶级期刊与国际会议发表论文50余篇。现为中国电子学会会员，IEEE会员，ISPRS&PRS、RSE、IEEE TGRS等20余个期刊审稿人。先后获得省部级科技进步二等奖、中国电子学会自然科学二等奖、全国高分遥感影像解译大赛一等奖。

**new更多信息请点击[图像解译与智能处理实验室网站](https://cist.buct.edu.cn/8488/list.htm)**，**[个人学术主页](https://xiangdeliang.github.io/homepage/)**

**招生专业 Admissions Major**

**硕士招生**：欢迎电子信息工程/计算机科学与技术/人工智能/通信工程等相关专业的同学**保送**、报考！

学术硕士：

* **信息与通信工程**（02图像解译与智能处理）
* **计算机科学与技术**（03图像智能信息处理算法研究）

专业硕士：

* **电子信息**（新一代电子信息技术-02遥感信息处理）
* **电子信息**（计算机技术-05图像智能信息处理算法研究）

**主要科研项目 Selected Research Projects**

|  |  |
| --- | --- |
| **项目名称** | **项目来源** |
| 基于散射机理的超像素模型构建及极化SAR图像快速精细化分类 | 国家自然科学基金面上项目 |
| 极化SAR建筑物散射机理精细化描述与信息提取关键技术研究 | 国家自然科学基金青年项目 |
| 地面时敏目标极化SAR数据集制备技术研究 | 重点实验室基金 |
| Fine Description of Scattering Mechanisms with Polarimetric SAR Data and Its Application on Urban Area Remote Sensing | 德国洪堡学者基金 |

**主要论文Research Paper**

1. Liang Zhang;Shengtao Lu;Canbin Hu;**Deliang Xiang\***;Tao Liu;Yi Su, “Superpixel Generation for SAR Imagery Based on Fast DBSCAN Clustering with Edge Penalty,” **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing(JSTARS)**, 2021.
2. Han Zhang;Lin Lei;Weiping Ni;Tao Tang;Junzheng Wu;**Deliang Xiang\***;Gangyao Kuang, “Explore Better Network Framework for High Resolution Optical and SAR Image Matching,” **IEEE Transactions on Geoscience and Remote Sensing(TGRS)**, 2021.
3. Gao Han;Changcheng Wang;**Deliang Xiang**;Jiawei Ye;Guanya Wang, “TSPol-ASLIC: Adaptive Superpixel Generation with Local Iterative Clustering for Time-series Quad- and Dual-Polarization SAR Data,” ***IEEE Transactions on Geoscience and Remote Sensing(TGRS)***, 2021.
4. Jing Wenbo;Tian Jin;**Deliang Xiang\***, “Fast Superpixel-Based Clustering Algorithm for SAR Image Segmentation,” ***IEEE Geoscience and Remote Sensing Letters(LGRS)***, 2021.
5. Qiang Yin;Jie Xu;**Deliang Xiang\***;Yongsheng Zhou;Fan Zhang, “Polarimetric Decomposition with An Urban Area Descriptor for Compact Polarimetric SAR Data,” ***IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing(JSTARS)***, 2021.
6. Xian Sun;Peijin Wang;Zhiyuan Yan;Diao Wenhui;Xiaonan Lu;Zhujun Yang;Yidan Zhang;**Deliang Xiang**;Chen Yan; Jie Guo;Bo Dang;Wei Wei;Feng Xu;Cheng Wang;Ronny Hansch;Martin Weinmann;Naoto Yokoya, “Automated High-Resolution Earth Observation Image Interpretation: Outcome of the 2020 Gaofen Challenge,” ***IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing(JSTARS)***, 2021.
7. Jianda Cheng;Fan Zhang;**Deliang Xiang\***;Qiang Yin;Yongsheng Zhou;Wei Wang, “PolSAR Image Land Cover Classification Based on Hierarchical Capsule Network,” ***Remote Sensing (RS)***, 2021.
8. Jianda Cheng;Fan Zhang;**Deliang Xiang\***;Qiang Yin;Yongsheng Zhou, “PolSAR Image Classification with Multi-scale Superpixel-Based Graph Convolutional Network,” ***IEEE Transactions on Geoscience and Remote Sensing(IEEE TGRS)***, 2021.
9. Wenbo Jing;Tian Jin;**Deliang Xiang\***, “Content-Sensitive Superpixel Generation for SAR Images With Edge Penalty and Contraction-Expansion Search Strategy,” ***IEEE Transactions on Geoscience and Remote Sensing(IEEE TGRS)***, 2021.
10. Sinong Quan; Yao Qin; **Deliang Xiang\***; Wei Wang; Xuesong Wang, “Polarimetric Decomposition-Based Unified Manmade Target Scattering Characterization with Mathematical Programming Strategies,” ***IEEE Transactions on Geoscience and Remote Sensing (IEEE TGRS)***, 2021.
11. Sinong Quan; **Deliang Xiang\***; Wei Wang; Boli Xiong; Gangyao Kuang, “Scattering Feature-Driven Superpixel Segmentation for Polarimetric SAR Images,” ***IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (IEEE JSTARS)***, 2021, 14: 2173-2183.
12. **Deliang Xiang**, Fan Zhang, Wei Zhang, Tao Tang, Dongdong Guan, Liang Zhang, and Yi Su, “Fast Pixel-Superpixel Region Merging for SAR Image Segmentation,” ***IEEE Transactions on Geoscience and Remote Sensing (IEEE TGRS)***, 2020.
13. Wei Zhang, **Deliang Xiang\***, and Yi Su, “Fast Multiscale Superpixel Segmentation for SAR Imagery,” ***IEEE Geoscience and Remote Sensing Letters (IEEE GRSL)***, 2020.
14. Wenbo Jing, Tin Jin, and **Deliang Xiang\***, “Edge-Aware Superpixel Generation for SAR Imagery With One Iteration Merging,” ***IEEE Geoscience and Remote Sensing Letters (IEEE GRSL)***, 2020.
15. Wenbo Jing, Tin Jin, and **Deliang Xiang\***, “SAR Image Edge Detection With Recurrent Guidance Filter,” ***IEEE Geoscience and Remote Sensing Letters (IEEE GRSL)***, 2020.

**研究成果Research Achievements**

