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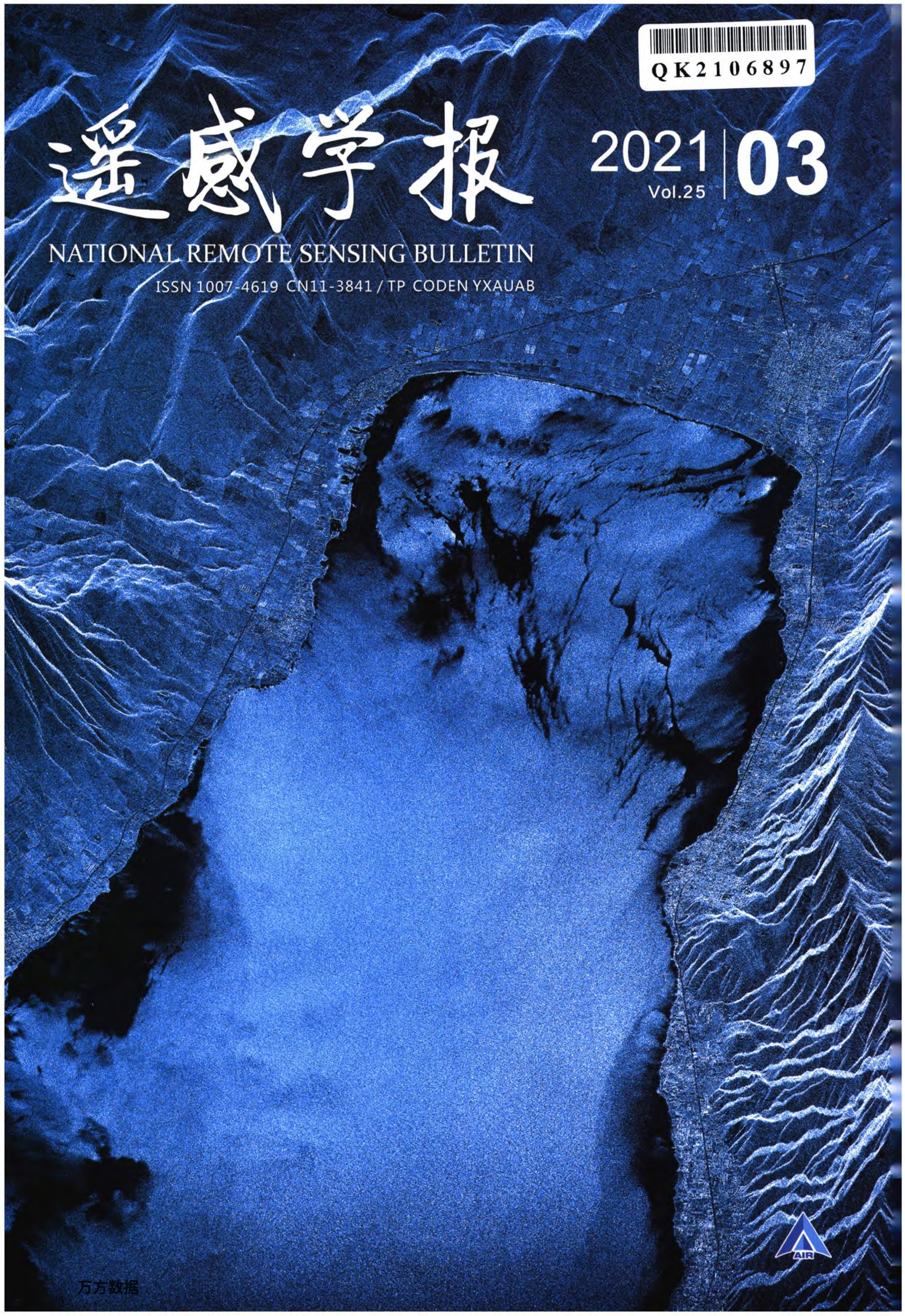

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Yaogan Xuebao

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启功先生创刊题名

封面说明

About the Cover

"海丝一号"卫星墨西哥查帕拉湖SAR遥感影像

HISEA-1 satellite SAR remote sensing image of Lake Chapala, Mexico

封面图片为"海丝一号"卫星（HISEA-1）于2020年12月29日获取的墨西哥哈利斯科州查帕拉湖西部及周边区域的合成孔径雷达（SAR）影像，展现了山地、湖泊、农田、城市等多种典型地貌特征，环湖公路、风浪和风条纹等清晰可见。"海丝一号"卫星由厦门大学、长沙天仪空间科技研究院有限公司（简称"天仪研究院"）和中国电子科技集团公司第三十八研究所（简称"中国电科38所"）等单位联合策划研制，是世界首颗面向海洋和海岸带观测的C波段轻小型（重量为185 kg）SAR卫星，具有聚束、滑动聚束、条带和扫描等多种SAR成像模式，最高分辨率可达1 m，最大幅宽可达100 km，并兼具星上SAR成像处理和AI目标识别等先进功能，将为全球变化背景下海洋动力环境参数的遥感反演、海洋灾害监测、洪水监测和地表形变分析等提供有力支持。

The cover image is a Synthetic Aperture Radar (SAR) image of the western and surrounding areas of Lake Chapala, Jalisco, Mexico, acquired by HISEA-1 satellite on Dec. 29, 2020, showing multiple typical features of mountain, lake, farmland and city, and the road around lake, wind waves and wind streaks are clearly visible. HISEA-1 is jointly planned and developed by Xiamen University Joint Center for Remote Sensing, Spacety Co. Ltd and China Electronics Technology group Corporation (CETC) 38th Research Institute, and it is the first C-band SAR miniature satellite (Its weight is only 185 kg) for the observation of ocean and coastal area in the world. HISEA-1 has multiple imaging modes, such as spotlight SAR, sliding spotlight SAR, stripmap SAR and scan SAR. It has the highest resolution of 1 m and the max width of 100 km. Also it is equipped functions of the on-board SAR imaging and AI (Artificial Intelligence) target recognition. HISEA-1 will support remote sensing inversion of the marine dynamic environment parameters, marine disaster monitoring, flooding monitoring, land surface deformation analysis in the global warming background, and will further assist research on coastal and climate change with society's needs through early stakeholder engagement, community outreach and education, ultimately leading to informed decision making, mitigation of coastal climate change impacts, building more resilient communities, and protecting lives and livelihoods in the coastal areas.

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