

Research Group for Hyperspectral Remote Sensing, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences

This research group has been aiming at the international frontier. They innovatively developed a series of fundamental theories and models for hyperspectral remote sensing (HRS), and made major breakthroughs in the field imaging spectrometry and hyperspectral image simulation technologies; resolved key techniques for HRS image process, information extraction, surface parameter estimation and system development; effectively bridged the gap between the HRS advanced theories and their actual use in various application fields including agriculture, mineral and energy resource exploration, environment, preservation of cultural relics and military, which greatly promote the development of aerospace HRS in China. The group played a key role in the initiation, technology leading, talent cultivation, popularization and applications for China's HRS; produced major impacts worldwide. This group has made irreplaceable



China's first field imaging spectrometer, widely applied in various fields including hyperspectral mechanism research, food security, preservation of cultural relics and target detection

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Zhang Bing was invited to give a plenary talk: "Intelligent hyperspectral remote sensing satellite: a new perspective" at IEEE GRSS WHISPERS 2015 workshop, Tokyo, Japan

Team achievements were selected by Chinese Academy of Sciences for exhibition at the 17th China Hi-Tech Fair in Shenzhen



China's first Hyperspectral image Onboard Processing Engine System, for the first time, made it come true that the simultaneousness of acquisition and processing for hyperspectral image

China's first inland water environment remote sensing monitoring system, has been