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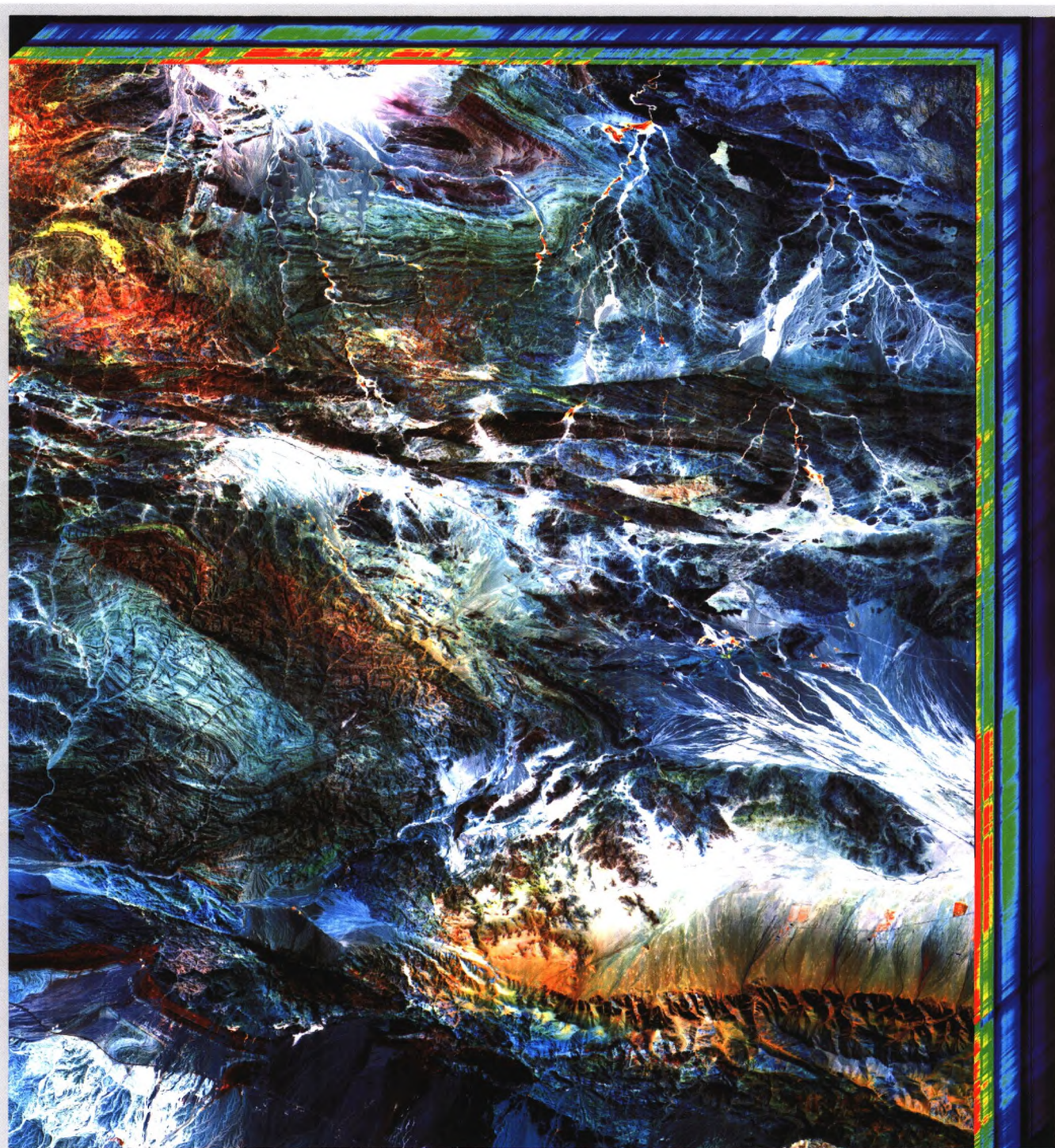
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Yaogan Xuebao

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About the Cover

高分五号中国东天山矿区高光谱数据立方体

Hyperspectral data cube of GF-5 satellite in East Tianshan Mountain Mining Area, China

封面图片为高分五号(GF-5)卫星上的主载荷之一——可见短波红外高光谱相机获取的中国东天山矿区影像数据立方体。该相机由中国科学院上海技术物理研究所研制,突破了高光谱成像宽幅宽谱集成、大规模高帧频制冷型短波红外焦平面组件工程化和在轨高精度定标等技术,是国际上首个采用改进型Offner结构凸面光栅分光的星载高光谱相机。该相机幅宽为60 km、空间分辨率为30 m和光谱分辨率为5—10 nm,可同时获取地表地物在400—2500 nm范围内330个谱段的空间、辐射与光谱信息,具有突出的地物探测和识别能力,在生态环境监测与自然资源调查等诸多领域具有良好的应用前景。

The cover image shows the hyperspectral data cube of GF-5 satellite in East Tianshan Mountain Mining Area, China, which is obtained by short-wave infrared hyperspectral imager. The Advanced Hyperspectral Imager (AHSI) is developed by Shanghai Institute of Technical Physics, Chinese Academy of Sciences. It is the first space-borne hyperspectral camera to utilize both the convex grating spectrophotometry and improved offner structure. The AHSI breaks through three key technologies, which are the integration of wide-spectrum and wide field of view, the cooled large-dimensions high-frame frequency short-wave infrared focal plane module engineering and on-orbit high-precision calibration. The AHSI has 5—10 nm spectral resolution, 30 m spatial resolution and 60 km swath width, and could simultaneously collect spatial image, radiation and spectrum information of ground objects using 330 spectral bands ranging from 400 to 2500 nm. It provides outstanding capability of detecting and identifying different ground objects on the earth surface, and will benefit many realistic applications in ecological environment monitoring and natural resource exploration.

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