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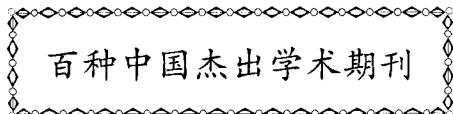
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遥 感 学 报

Yaogan Xuebao

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About the Cover

中国首颗0.5 m级商业遥感卫星(SuperView-1)影像

The image of the first Chinese commercial satellite (SuperView-1) data (0.5 m)

封面图片为世景公司利用高景一号 (SuperView-1) 卫星于 2017 年 1 月 6 日获取的中国香港跑马地影像。SuperView-1 卫星是中国首颗自主研制的 0.5 m 级高分辨率商业遥感卫星——全色分辨率 0.5 m, 多光谱分辨率 2 m, 轨道高度 530 km, 幅宽 12 km。SuperView-1 卫星具有很高的敏捷性, 可设定拍摄连续条带、多条带拼接、按目标拍摄多种采集模式, 并可进行立体采集。单景最大可拍摄 60 km×70 km 影像。其具有 4 个多光谱波段 (蓝色、红色、绿色和近红外波段) 和 1 个全色波段。一旦 SuperView-1 卫星星座正式具备运营能力, 将打破中国高分辨率卫星遥感市场被国外厂商垄断的局面, 可为全球用户提供以高空间、高时间、高光谱分辨率和全天候对地观测能力为核心的遥感数据及其增值服务, 同时也是中国遥感卫星技术向全球商业化遥感卫星运营迈出的重要一步。

The cover shows the satellite image of Happy Valley, Hong Kong, which was obtained on January 6, 2017 from the SuperView-1 satellite. SuperView-1 is operated at an orbital altitude of 530 km, with the swath of 12 km, and in particular, it has spatial resolutions of 0.5 m and 2 m for the one panchromatic and four multi-spectral bands (blue, red, green and near-infrared), respectively. The high agility of SuperView-1 has been indicated in its multiple acquisition modes, including continuous strip, splice with multiple strip, target-oriented, and stereo modes. The maximum spatial cover for a single image is 60 km × 70 km. SuperView-1 opens the important step towards the global satellite market, and would provide an avenue to break the monopoly from foreign manufacturers with its high spatial, temporal and spectral observations and their consequent application services.

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