

# **A New Digital Earth Information Source – Processing and Applications of Chinese Spacecraft Remote Sensing Data**

**GUO Huadong, WANG Changlin, WANG Weimin, ZHU Boqing and ZHONG Ruofei,  
China P. R.**

## **Key words:**

## **SUMMARY**

One of the core information sources being constructed and developed for Digital Earth is spatial earth observation data. Remote sensing data of different platforms, different bands, different temporal acquisitions, and different resolutions provide Digital Earth rich spatial and temporal information. In March and December of 2002, China launched SZ-3 and SZ-4 spacecrafts equipped with a Medium Resolution Imaging Spectrometer (CMODIS) and a Multi-mode Microwave Sensor System composed of a microwave radiometer, radar altimeter, and a scatterometer. This paper gives data processing and application results of 34 bands CMODIS and 5 bands microwave radiometer, discusses the application potentials of these data at regional and global scales, and analyzes its important role played in the under building Digital Earth Prototype System of the Chinese Academy of Sciences.

## **CONTACTS**

GUO Huadong, WANG Changlin, Wang Weimin, Zhu Boqing and Zhong Ruofei  
Institute of Remote Sensing Applications  
Chinese Academy of Sciences  
P.O. BOX 9718  
Beijing 100101  
CHINA  
Tel. + 86 10 68597231  
Fax + 86 10 64879740  
Email: guohd@irsa.irsa.ac.cn