

EARTH OBSERVATION SYMPOSIUM (B1)
Earth Observation Data Management Systems (4)

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DESIGN AND IMPLEMENTATION OF MASSIVE SATELLITE REMOTE SENSING INFORMATION
PROCESSING SYSTEM

Abstract

Massive Satellite Remote Sensing Information Processing System is developed for massive satellite remote-sensing data transferring, processing, storage and distribution. This paper designs and implements a large scale, concurrent processing and multi-type, multi-task and multi-job and distributed system. The system not only solves the problem of massive data, parallel processing and highly real-time, but also greatly improves the flexibility and productivity of information operation. At the same time, distributed architecture reduces this system complexity and improved scalability. The run result displays that the Massive Satellite Remote Sensing Information Processing System is highly effective, reliable, extensible and scalable.

Keywords: remote sensing satellite, massive satellite remote-sensing data, distributed system, concurrent processing, parallel processing