

# 海量卫星数据入库效率提升方法研究

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摘要: 提出一种海量卫星数据入库效率提升方法, 通过对观测目标、数据质量、访问频率、管理开销等影响因素进行分析, 得到卫星数据价值评估模型, 准确的指导卫星数据入库, 提高卫星数据入库的准确率、卫星数据的入库质量. 根据最小数据传输粒度和卫星数据使用强度的数字特征选择性能较好的卫星数据入库传输链路, 提高卫星数据入库的效率, 完成海量卫星数据入库效率的提升. 实验结果表明, 采用所提方法完成海量卫星数据的入库时, 卫星数据入库效率高、入库质量高、入库准确率高.

关键词: 卫星数据; 入库效率; 提升方法

## Research on Enhancing Mass Storage Efficiency of Satellite Data

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Abstract: This paper presents a method to improve the storage efficiency of massive satellite data. Through analyzing the influencing factors such as observation target, data quality, access frequency and management overhead, the evaluation model of satellite data is obtained, which can accurately guide the storage of satellite data and improve the satellite data input. The accuracy of the library, the quality of the satellite data storage. According to the minimum data transmission granularity and the digital characteristics of the intensity of the satellite data, a better performance satellite data warehousing transmission link is selected to improve the efficiency of satellite data storage and improve the storage efficiency of massive satellite data. Experimental results show that satellite data storage efficiency is high, storage quality is high, and storage accuracy is high when the proposed method is used to store massive satellite data.

Key words: satellite data; storage efficiency; enhance the method

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