LAND COVER REMOTE SENSING IMAGERY WEB RETRIEVAL IN CHINESE SECOND ROUND OF NATIONAL LAND USE INVENTORY PROGRAM

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ABSTRACT:

Chinese Second Round National Land Use Inventory Program (from July 1st, 2007 to December 31st, 2009) is a national conditions and power investigation, which is very significant to economy and social development, the target of which is to make a thorough investigation of land use details, to get real infrastrctural land use data, to construct a management system based on web services. To facilitate land cover / land use interpretation of Chinese Second Round of National Land Use Inventory Program, a land cover remote sensing imagery retrieval system was constructed based on multi-source land cover classified remote sensing images, ASP.NET techniques and web service. This paper presents the details of the methodologies of national level land cover remote sensing image classification, the architecture and functions of the system, the methodologies of table construction of the database. The remote sensing images was classified into 8 top-level classes, and further classified into 38 second-level classes according to Chinese land cover standard classess provided by Ministry of Land and Resources P.R.C. The results of this work can be easily browsed, checked, edited by the public or experts.

TOPIC: Land cover classification
ALTERNATIVE TOPIC: Remote sensing applications