[1]邓磊,孙洪泉,易文斌,等.基于Oracle Spatial的多元灾害信息数据库——设计与应用[J].自然灾害学报,2008,06:13-16.

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基于Oracle Spatial的多元灾害信息数据库——设计

Title: Multi-resources disaster information database based on Oracle Spatial:design and application

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关键词： 灾害信息；多元空间数据；Oracle Spatial；Mapviewer；数据库

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摘要： 多元异构的灾害灾情数据是各种灾害信息系统的基础和核心,科学高效的管理和应用这些数据尤为重要。介绍了基于Oracle Spatial的技术设计与构建多元灾害信息数据库的结构框架,分析了存储数据信息的种类、属性及特点,研究了数据的存储方式。在多元异构数据统一管理的基础上,初步实现了多元灾害信息的存储、查询、绘图及显示等功能。

Abstract: It is very important that multi-resources and heterogeneous disaster information data can be managed and applied scientifically, because it is the foundation and the core of disaster information management system.This paper introduces the structure of multi-resources disaster information database which is designed and constructed by Oracle Spatial, and analyzes the category and attribute of data which is storied by the database and researches the method for storing spatial data.Application program, which can be used to query, draw and analyze multi-resources disaster information data, is developed by integrative management of multi-resources and heterogeneous disaster information data.

参考文献/REFERENCES

[1] 陈 颙,史培军.自然灾害[M].北京:北京师范大学出版社,2007.

[2] 陈述彭.台风防灾减灾信息系统[J].地球信息科学.2006,8(4):1-3.

[3] 魏 华.灾害信息多元空间数据管理研究[D].北京:中国科学院遥感应用研究所,2006.

[4] 李 明,李姗姗,张小林.基于Oracle Spatial的多元重力场信息数据库的设计与应用[J].测绘科学.2007,32(6):110-112.

[5] Oracle Corp.Oracle Spatial Users' Guide and Reference,10g Release 2(10.2)[Z].2005.

[6] Oracle Corp.Oracle Spatial GeoRaster,10g Release 2[Z].2005.

[7] 孙永华,李小娟,尹连旺.基于ArcSDE和SQL Server2000洪水灾害信息数据库的设计研究[J].河北师范大学学报(自然科学版),2007,31(3):400-402.

[8] 何雄.Oracle Spatial与OCI高级编[M].北京:中国铁道出版社,2006.

[9] 汪明冲,赵军,李玉琳.空间数据库引擎及其解决方案分析[J].地理信息世界.2006(4):63-66.

[10] Oracle Corp.Oracle Application Server Map Viewer Users' Guide,Release 10.1.3.1[EB/OL].http://www.oracle.com,2006.