

地理信息系统

基于GeoServer的WebGIS在旅游服务中的应用

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摘要:

建立了基于OpenGIS的生态旅游自助服务系统网站,为旅游产业的各方提供一个信息共享的平台,促进居民参与旅游业的发展

,将GIS与旅游业相结合,实现直观的、可视化的地理信息展示和管理。对生态旅游系统进行了目标分析,详述了系统的整体结构、

功能模块和数据流程。服务器操作系统使用RedHat Linux Enterprise AS5; 客户端使用主流的浏览器; 数据库管理系统采用

PostgreSQL 8.0; 空间数据引擎采用PostGIS; 应用服务器平台采用Tomcat 5.5; WebGIS平台采用GeoServer 1.5.3服务器,内置

了GeoTools组件。以珠峰自然保护区为例进行了试验。

关键词: OpenGIS 生态旅游 自助服务 GeoServer PostGIS

THE APPLICATION OF GEOSERVER-BASED WEBGIS TO TOURISM

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Abstract:

The authors have established an eco-tourism self-service system website based on the OpenGIS, whose goal

is to give local residents some guidance and training. It does not need large-scale infrastructure construction, and

the purpose lies in making them obtain some traveling serviceability. Through this website the local residents can

establish communication with the tourists and participate in this industry so as to develop local economy. This

paper carried out the system demand analysis and described the system construction, the function module and the data

flow in detail. The server operating system uses RedHat Linux Enterprise AS5, the client end utilizes mainstream

browser, the database management system employs PostgreSQL 8.0, the spatial data engine applies PostGIS, and the

application server platform uses Tomcat 5.5. The WebGIS platform uses the GeoServer 1.5.3 server,

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whereas the

GeoTools module is set in. With the Mount Qomolangma nature preservation zone as an example, the system was

conducted smoothly.

Keywords: OpenGIS Eco-tourism Self-service GeoServer PostGIS

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