Abstract

The need for more cost-effective, accurate and efficient methods of using geospatial information has been around a long time. However, development of GIS software solutions and information technologies enabled the distribution, access and manipulation of geospatial data over the Web.

In this paper is represented a new access to geospatial data and the possibility of integrating geospatial data with other business intelligent systems in standard and modern, Web-oriented, GIS applications. The paper reveals the motivation to show how geospatial data can be integrated into the Web environment platform and make it available to a large number of users.
This paper represents the new method called GeoREST which is based on the principles of Services Oriented Architecture (SOA), or widespread Representational State Transfer (REST) architecture for geospatial data.

The proposed method called GeoREST defines new principles for manipulation with geospatial data, which will provide new ways of integration and distribution of geospatial data. This method provides an easy and open access to all types of geospatial resources through a uniform interface. GeoREST method opens new possibilities in the use of geospatial resources, both in standard desktop or Web applications, as well as business information systems. Geospatial service GeoREST API is developed and based on GeoREST method, and it defines the required application interface for simple and open access, manipulation and analysis of geospatial data. The practical implementation of services is made within the project georest.org.

Reference


Index Terms

Computer Science  Intelligent Systems
Key words

Integration  REST  GIS  GeoREST  SOA

Web service.