

**DESIGN AND IMPLEMENTATION OF CHINESE POLAR SPATIAL INFORMATION PORTAL**

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A portal is a powerful Web site that gives users a single point of access to applications and information in a unified interface. A portal lets users view each application or Web page in its own window, called a portlet, and a single browser window can contain multiple portlets. The portlet based on JSP168&WSRP is a new technology for interactive, user-facing web services that plug and play with portals. Thanks to the development of Portal&Web GIS, the GIS Portal is focused on more and more by the researchers. This paper studies the GIS Portal defined by ESRI and analyzes the development's status, compares with the commercial Portal and points out the great shortage of the ESRI GIS Portal: lack in Personalization content and UI. Therefore this paper goes into depth on the discussion of design and implementation scheme of real GIS Portal, and proposes the new idea of developing customized ,plug and play GIS Portal Module based on JSP168 Portlet technology and WSRP Standard. This way can resolve the difficult problem of the GIS Portal on lacking of content and customization function. According to this idea, this paper plans to use the JaveBeans provided by GeoSurf to develop visual Portlet which have basic operating function of GIS. The GIS Portal of Chinese Polar is deployed using the WebLogic Portal. Finally, the quality of portal is discussed and an improving way spatial service chain based on web minning is put forward.

**Key Words:** GIS Portal, Chinese Polar Portal, Data minning, Web minning