

Digital Maps of Hydropower Stations in China

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Wuhan University Library is providing access to the invaluable content of hydropower resources in the form of a GIS digital map. Based on the specialty of data organization, display mode and retrieval strategy, this presentation will examine three areas related to digital maps. First, it will propose a 3D resource model for knowledge organization. A 3D model enlarges the information of each resource to the spatio-temporal dimension and makes submodels of other representation formats by derivation. Second, the digital map implementation will be discussed. There are three types of geo-feature layers (point, polyline and polygon) and each map layer belongs to one feature type. Through the integrated and simultaneous operations of the three layers, the map display can be varied according to the user's demands. Third, the Library created a special strategy to realize the interaction between GIS digital map platform and background literature. By using the keyword of each hydropower's name, a direct relevancy is established. This application of digital maps related to geo-information provides a more efficient, convenient and vivid representation than traditional depictions.