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Design Research of TIANDITU (Map Worl)-Based Geographic Information System for Travelling Service

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Abstract. TIANDITU (Map World) is the public version of the National Platform for Common Geospatial Information Service, and the travelling channel is TIANDITU-based geographic information platform for travelling service. With the development of tourism, traditional ways for providing travelling information cannot meet the needs of travelers. As such, the travelling channel of TIANDITU focuses on providing travel information abundantly and precisely, which integrated the geographic information data of TIANDITU Version 2.0 and the authoritative information resources from China National Tourism Administration. Furthermore, spatial positioning, category and information query of various travelling information were offered for the public in the travelling channel. This research mainly involves three important parts: the system design, key technologies of the system design and application examples. Firstly, this paper introduced the design of TIANDITU-based geographic information system for travelling service, and the general and database design were described in detail. The designs for general, database and travelling service above should consider lots of factors which illustrated in the paper in order to guarantee the efficient service. The process of system construction, the content of geographic information for travelling and system functions of geographic information for travelling are also proposed via diagram in this part. Then several key technologies were discussed, including the travelling information integration for main node and among nodes, general architecture design and management system for travelling channel, web portals and system interface. From the perspective of main technologies, this part describes how TIANDITU travelling channel can realize various functions and reach the requirements from different users. Finally, three application examples about travelling information query were listed shortly. The functions and search results are shown clearly in this part. In all, TIANDITU-based geographic information system for travelling service aimed to integrate the travelling information resources from national, provincial and municipal levels, and finally realized to provide "one stop" travelling service for users in the end.

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