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## Research and implementation of geographic information service mode in digital home

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**Abstract.** Accompanying infrastructure improvements and networking technology innovation, the development of digital home service industry has gotten more and more attention. However, the digital home service levels have not sufficiently met rising demand from users. Therefore, it is urgent to propose and develop new service modes for the digital home. Geographic information services can provide various spatial information services such as map search, spatial information query. It has become an inevitable trend to implement geographic information services in the digital home. This paper proposes three new geographic information services modes for the digital home after sufficient requirement analysis: pushed information service mode, interactive information service mode, personalized information service mode. The key technologies to implement geographic information services on digital televisions are studied, involving digital television middleware technology, network transmission technology and visualization technology. According to the service modes' characteristics mentioned above, a service system in the digital home is established to implement geographic information services on the basis of digital television. The implementation of geographic information services in the digital home not only enriches the digital home services content, but also promotes geographic information from specialization to public popularity.

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