

Towards a Web Processing Service for Object-based Cadastral Information Collection: a Case Study of Iran

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Abstract. Developments in information science and technologies are changing the world magnificently. Nowadays, not only it is possible to store (spatial) data about the environment, it is also possible to present them in forms that non-expert users can understand and use it. The advanced techniques of Geospatial Information Science (GIS) are helping in achieving this goal in a remarkable manner. This research aims to take the first steps in defining the theoretical framework for applying GIS technology in management of cadastral information using Object Modeling Technique (OMT). In addition, the involved technological issues have been explored and applied in the production of a prototype of a Cadastral Information System (CIS) capable of providing answers to spatial queries which bothers the minds and daily activities of stakeholders in cadastral information management. The methodology and tools used along with the results achieved have been presented and discussed.

Keywords. Geo-Web 2.0, Cadastral Information System, Object Oriented Modeling