EFFICIENT EVOLUTION OF SPATIAL PREFERENCE DATA

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ABSTRACT

A database that is optimized to accumulate and query data that is related to objects in space is a spatial database and a spatial preference query objects are based on the traits of their spatial neighborhood. For example, by using their spatial neighborhood a customer may want to rank the flats with respect to the correctness of their location which are defined after aggregating the qualities of other features using a real estate agency database of flats. Such a locality concept can be specified by the user by using different functions. Within a given distance from the flat it can be a plain circular region. To assign higher weights to the features based on their proximity to the flat is another instinctive definition. In this paper, we propose appropriate indexing techniques and formally define spatial preference queries and search algorithms for them. Wide-ranging estimation of our methods on both real and synthetic data reveals that an optimized branch-and-bound solution is resourceful and robust with respect to different parameters.

Keywords: Query Processing, Spatial Databases, Spatial Preference Data.