Abstract

Wireless communication technology has been rapidly increasing, it became quite common for
people to view maps or get related services from the handheld devices, such as mobile phones
and PDAs. Spatial databases have witnessed an increasing number of applications recently,
due to the fast advance in the fields of mobile computing and embedded systems and the
spread of the Internet. Range queries are often posed by user to retrieve the useful information
from a spatial database. We present a novel idea that a concise representation of a specified
size for the range query results, while incurring minimal information loss, shall be computed and
returned to the user. Such a concise range query not only reduces communication costs, but
also offers better usability to the users, providing an opportunity for interactive exploration. The
usefulness of the concise range queries is confirmed by comparing it with other possible
alternatives, such as sampling and clustering. In this proposed system, we include the entities
and associate the object attributes such as restaurants, shopping places etc which represents a
point within a Hilbert curve which facilitates in reducing search space for spatial data, and to
provide a range for attribute such that all the information is retrieved with minimal loss. The
proposed system also includes peer to peer system through which multiple spatial databases
can be accessed in efficient time.
References


Index Terms

Computer Science
Information Science

Keywords

Spatial Database  Range Queries