Abstract

Today's applications requesting for finding spatial objects closest to a specified location or within some range which satisfy constraint of keywords. Initially, spatial queries finding nearest neighbor or range queries having conditions on only geometric properties of object points. For example, in the emergency of accident taking all hospital in consideration is not useful rather than finding hospital having facilities like ICU and emergency facilities at the same time. Currently, solution to these queries is based on the IR2-tree is not capable to provide real time effective answers. A new method named the SI-index Spatial Inverted) is developed extends the capabilities of conventional inverted index manages with multidimensional data, along with the solution of moving range queries answered by using SI-index results to algorithm which solves the problem in real time.

Index Terms

Computer Science
Information Sciences

Keywords
Nearest Neighbor Search  Keyword Search  Spatial Inverted Index  Range query.