Abstract

In recent years, there are many research about indexing objects in spatial databases. However, since there are different spatial data characteristic between indoor and outdoor environment, the indexing method in outdoor spaces is not easily applicable in indoor scenarios. Outdoor spatial data commonly use Euclidean distance to do its processing, which are rarely used in indoor spaces. So different approach should be done to support indoor object indexing. This minor thesis focus on implementing C-Tree, index structure for indoor objects based on indoor cell adjacency in multi floor and multi building environment. The index will implemented in the buildings of School of Computing Telkom University. The implementation is expected to prove indexing indoor objects method based on cell adjacency can be applied to multi floor and multi building structure.

Keywords: Indexing, indoor space, adjacency, multi floor, multi building