

Abstract

Electronic map is an application which implementation an manual map to a system, like kind a computer, handpone, communicator, or PDA (Personal Data Assistant). That is usefull for data optimation from manual map, with that become used information. With GIS, will facilitate all user to find the location information of user, so that the user can reach the such location.

This final project has been implemented optimal search method that is Uniform Cost Search (UCS) algorithm for finding of the shortest path with GIS for the case study of street location map in Makassar city. Tecnology of GIS use UCS algorithm give more information, because presented information visually in the form of location data of street, location data of places, and the shortest path from location source to location destination which presented in map.

Keywords : *map, geographical information system (GIS), optimal search method, uniform cost search (UCS), the shortest path.*