

Abstract

Fire is a disaster that can result in material losses to the loss of one's life or even more. In terms of fire prevention there are two important things, namely fire alarm and evacuation process that is carried out during a fire, in this case the evacuation process is still not dynamic and manual which is carried out by the officer directing the victim to the exit line or the victim following the not dynamic. Making a dynamic pathway can help fire victims find a fast path to the exit and also so that victims can stay away from where the fires occur. By using *Dijkstra* shortest path algorithm, the system created can create a dynamic evacuation path with an average time of 0.4 seconds in making the path.

Keywords: Fire, evacuation route, Shortest Path , Dijkstra