

## **Abstract**

*The train have important roles as transportation medium squiring the passenger to target town. The train differ from the other transportation medium, it move through on special road that known as the railway. In Indonesia, there is two type of railway, single track and double track. Double track may two of train with .different direction move at the same time. While single track required a monitoring of usage the train way to avoid existence two of train that move with different direction will be met.*

*Bidirectional search is a search algorithm where in the process of searching use two node to solve the problem, they are start and finish node. If in the process the nodes met, so the solution found. With this approach then bidirectional search can be use to determine where the train with the different direction will be met. This will build and develop the system that able to monitoring of train traffic that done by machine or compute automatically.*

***Keywords : monitoring of train traffic, bidirectional search***