

Abstract

Advance Intelligence Traffic Control System (AITCS) is a vehicle traffic junction control system that has the ability to think and control different traffic situations and condition without any human assistance needed.

The objective of AITCS is to provide a safer traffic junction, smoother roads traffic and shorten waiting times for road users, determine and provide the best solution or controls for any given traffic condition.

In order for this to be done, a logical program design will be needed to work together with various hardware or equipment to determine every different traffic situations in a split of a second.

AITCS logical program are design base on the following objectives:

- 1. Provide a Safer Traffic Junction**
- 2. Authorities Use and Special Operations**
- 3. Shorten Drivers Waiting Time at Traffic Junction**
- 4. Control Any Traffic Junction Condition**
- 5. Vehicle Total Traveling Distance**