Abstract

Traffic condition monitoring is an important part of ITS (Intelligent Transport System). Traditional traffic monitoring system is utilizing video only as traffic condition information. In its development, not only video information are needed, but also other information such as road density and accident data. At final project, implemented smart visualisation system for traffic condition monitoring using GIS (Geographical Information System). The final project is having a goal to create a design and prototype traffic monitoring application that can show a lot of information about traffic conditions to improve the traditional system monitoring. It’s testing is done at smart features such as a map of traffic conditions, road conditions information and video monitors. The result is multi display video, gradient color from road LOS (Level of Service) value and road information form. Results of spatial query on the road layer indicate an error of 65%.