Abstract

Inclusion of Agents in the domain of managing traffic and its real time demand of coordination and cooperation is proven quite promising. Agent oriented traffic coordination helps in improving traffic management and in achieving efficiency of vehicle movement. Today with rapid urbanization and increasing number of vehicles, traffic congestion has emerged out as a serious bottleneck. Automated vehicle decision models that are capable of taking self-decision finding a better path for the movement of traffic flow in control area are developed and more work is going on in this field. These automated vehicles are able to communicate and coordinate with each other’s thereby maintaining proper coordination among neighboring vehicles. Every neighbor knows its current location and its group member’s.

This paper presents several traffic coordination, communication and controlling strategies and methods for controlling them. Use of agents in traffic simulation helps in reducing traffic congestion and delay. Lack of communication and controlling mechanism decreases traffic speed and average target destination time.
References


Index Terms

Computer Science

Information Sciences

Keywords
Agent coordination, vehicle grouping, MAS cooperation