Predictive Use of Upcoming Traffic Signal Information for Improving Fuel Economy, Cutting Emissions, and Reducing Trip Time

Description:

This technology utilizes information from traffic signal systems to improve fuel economy, cut emissions, and reduce trip time. The software uses short range radar and traffic signal information to predict and minimize the use of braking, suggest the optimal safe distance between vehicles and the optimum speed for a vehicle. The system works in conjunction with conventional off-the-shelf systems. Other research and initiatives are taking place in the industry that will enable the transmission of information about the relative location and the schedule of traffic lights to vehicles within the Cooperative Intersection Collision Avoidance Systems (CICAS) Initiative.

Applications:

• Automotive industry
• Aftermarket computer chip manufacturers

Benefits:

• Reduces fuel consumption, emissions, brake wear, and trip time
• Increases safety on roadways
• Uses conventional, off the shelf systems
• Utilizes research already performed and supported by the CICAS Initiative

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