METHODS AND SYSTEMS FOR COORDINATING VEHICULAR TRAFFIC USING IN-VEHICLE VIRTUAL TRAFFIC CONTROL SIGNALS ENABLED BY VEHICLE-TO-VEHICLE

Abstract

Systems, methods, software, and apparatuses for coordinating traffic proximate to a potential conflict zone, such as a roadway intersection, where travel conflicts, such as crossing traffic, can arise. Coordination involves forming an ad-hoc network in a region containing the conflict zone using, for example, vehicle-to-vehicle communications and developing a dynamic traffic control plan based on information about vehicles approaching the conflict zone. Instructions based on the dynamic traffic control plan are communicated to devices aboard vehicles in the ad-hoc network, which display one or more virtual traffic signals to the operators of the vehicles and/or control the vehicles in accordance with the dynamic traffic control plan.

FIG. 1