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Abstract:

An AI based control system for a vehicle drive unit. The system comprising organizing a vehicle group of a plurality of self-driving vehicles in which a parameter value vehicles falls within a predetermined range, driving the vehicle along the learned route in an autonomous mode, obtain movement information of the movable part c of the vehicle, a controller in electrical communication with the right speed sensor and the left speed sensor, adjusts the at least one of the right-side actuators to mc control arm of the right-side variable drive unit and the left side actuator to move the second control arm of the left side variable drive unit to effectuate the at least c operational output, controlling the host vehicle in an adaptive cruise mode such that the distance between the host vehicle and the front vehicle or the rear vehicle m predetermined distance based on the driving environment information of the host vehicle and the vehicle information of the front vehicle or the rear vehicle.

Complete Specification

Description:AI BASED CONTROL SYSTEM OF A VEHICLE DRIVE UNIT

BACKGROUND

Technical Field

[0001] The embodiments herein generally relate to an AI based control system of a vehicle drive unit.

Description of the Related Art

[0002] Information from automotive sensors, passenger activity sensors, driver medical condition sensors, roadway condition sensors, pedestrian congestion anc measurement sensors are combined in an integrated system making use of artificial intelligence expert systems to derive motor vehicle warning and control signals the goal of minimizing the occurrence of accidents while maintaining driver communication capabilities to report dangerous situations requiring immediate assistar variety of sensors and electronic devices are being mounted in vehicles to enhance user convenience.

[0003] The seriousness of the situation has led to various technological suggestions for reducing or eliminating the use of cellular telephones by drivers while ope motor vehicle while still allowing other passengers in that vehicle to use their cellular telephones for voice calls and texting in a normal manner. where an obstacle i present at the learned parking slot, the autonomous vehicle may be unable to perform autonomous parking. In some cases, the autonomous vehicle may be unabl actively learn a plurality of parking slots. when the inter-vehicle distance is too long, squeeze of a general vehicle to the interval may occur frequently. When the qua squeeze of the general vehicle in the platoon increases, the full length of the platoon is made longer and stability of the cooperative traveling decreases.

[0004] The traveling is managed in group units on the management center side. When the inter-vehicle distance between the platooning vehicles is too short, the

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