Patent Search

Invention Title	CRUISE CONTROL SYSTEM USING FUZZY LOGIC FOR AUTONOMOUS VEHICLE
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Abstract:

[0001] This invention falls under the domains of automotive engineering and intelligent control systems, with a focus on autonomous vehicle technologies. It address growing need for advanced driver-assistance systems (ADAS) that ensure safety and adaptability in diverse driving environments. By leveraging fuzzy logic principles, invention contributes to the development of intelligent cruise control systems capable of real-time decision-making. It is particularly relevant to areas such as traffic s autonomous navigation, and adaptive control, aligning with advancements in smart vehicle automation and intelligent transportation systems.

Complete Specification

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autonomous navigation, and adaptive control, aligning with advancements in smart vehicle automation and intelligent transportation systems.
Background of the invention:
[0002] Adaptive cruise control (ACC) systems are an increasingly common guidance feature in new vehicle models. ACC systems are intended to increase roadway s
especially on highways and freeways by minimizing driver errors caused due to fatigue, poor judgment, and distractions inside and outside the vehicle, lighting con
and weather. Although, the ACC is theoretically known to increase roadway safety, the effects of this system on actual driver behavior and awareness are unclear. T
aims at determining the effects of ACC systems on driver behavior and awareness. Driver behavior and awareness includes, but is not limited to, aspects such as dr
reaction times in case of sudden lane changes or crossing animals,

distractions caused by cell phones or other electronic devices, adhering to speed limits, perceiving vehicles violating traffic regulations, mental workload during vari
aspects of driving, and overall situational awareness

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