

Autonomous Vehicles Difficulties and Challenges

1. Problem Statement

In light of the recent autonomous vehicle (AV) growth and the high demand all over the world from people who simply want to switch into AV to high-end military systems which are acknowledging the abilities delivered by this technology [1]. However, with various researches conducted to address the difficulties and challenges that is facing the AV technology from safety and regulation to communications and liabilities, these articles and researches still remain to be inefficient and clearly not covering wide ranges of aspects required. With the current incomplete researches and statistical data, the next step of largely distributed AV will take much longer time and efforts.

2. Research Objective

This article aims to propose designing a world-wide data center that conduct and contain all required statistical and data that can be highly beneficial in the current AV development. All present researches have already made a great contribution in AV technology. However, the need for more of those researched will continue to grow as the AV technology gets widely used. Aspects from the safety and end-user experience, Hybrid relevance, environment and low carbon costs, and hardware and precautions effective decision-making are insufficiently discussed and reviewed in the present researches on AV technology. Effective collaboration from all over the world researchers and manufacturers will undoubtedly make considerable jump into an era of AV technologies dominance.

3. References

[1] RGS Deemantha, B Hettige (2023) Autonomous Car: Current Issues, Challenges and Solution: A Review