

Computational Methods for Autonomous Vehicle Navigation

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Abstract. This article presents new computational methods designed to enhance the navigation systems of autonomous vehicles. By integrating advanced sensor data processing algorithms, these methods improve vehicle decision-making capabilities and overall navigation accuracy. The research demonstrates the potential of these methods to advance the field of autonomous driving technology.

Keywords: Autonomous Vehicles, Navigation Systems, Sensor Data Processing, Decision-Making, Driving Technology

Introduction

Autonomous vehicles are at the forefront of modern transportation innovations, relying heavily on computational systems for navigation and decision-making. This study introduces new computational methods that integrate advanced sensor data processing to enhance the performance of autonomous vehicles. By improving navigation accuracy and decision-making capabilities, these methods offer significant advancements for the field. Through rigorous testing, our methods have shown promising results, indicating their potential to drive future innovations in autonomous vehicle technology.

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