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(57) Abstract :

The present invention relates to a novel method (100) for real-time autonomous vehicle traffic management. The novel method (100) for real-time autonomous vehicle traffic management comprises the following steps: utilizing a low-bandwidth, high-reliability network for efficient data transmission, operating within a bandwidth range; implementing energy-efficient AI/ML algorithms for decision-making; applying data cleaning and bias mitigation techniques to ensure the accuracy and fairness of the AI/ML algorithms; incorporating a fault detection and recovery system that continuously monitors the vehicle's systems and promptly addresses malfunctions; adapting to diverse environmental conditions to ensure continuous operation in case of power failure.

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