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(57) Abstract :
METHOD AND SYSTEM FOR INTEGRATING AUGMENTED REALITY IN SELF-NAVIGATING VEHICLES FOR IMMERSIVE HUMAN-MACHINE INTERACTION ABSTRACT The invention, described by reference numeral system (100), presents a cutting-edge system and method for seamlessly integrating augmented reality (AR) into self-navigating vehicles, promoting immersive human-machine interaction. Employing sensor modules (108) to collect real-time environmental data, a processor (104) analyzes the information to generate context-aware AR content, subsequently presented to users through a dedicated Display Interface (110). A Communication Module (106) ensures real-time updates, dynamically adapting the AR content based on changes in the vehicle's surroundings. The method involves receiving and analyzing sensor data, generating AR content reflective of the vehicle's environment, and presenting it on the display interface, thus facilitating an enriched and interactive experience for occupants. This innovation optimizes the utilization of AR in self-navigating vehicles, fostering a more intuitive and engaging interaction between users and the vehicle's surroundings, ultimately enhancing the overall autonomous driving experience.

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