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(57) Abstract :
The present invention discloses an augmented reality system for smart vehicle dashboard displays integrating a projection unit (101), sensor fusion engine (102), hazard recognition module (103), navigation guidance engine (104), infotainment integration module (105), adaptive rendering module (106), and driver interface controller (107). The system overlays contextual navigation cues, hazard alerts, and infotainment data directly onto the windshield in real time. By utilizing AI-driven processing and adaptive rendering, the invention enhances driving safety, improves situational awareness, and provides a personalized, distraction-free driving experience.

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