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(57) Abstract :
The present invention discloses an IoT-based platform for smart traffic pedestrian safety systems (100) integrating pedestrian sensors (102), cloud processing (104), wearable/mobile alerts (106), vehicle-to-infrastructure communication (110), and smart crosswalk indicators (112). The system enhances pedestrian safety through real-time sensing, predictive analytics, adaptive signaling, and personalized alerts. Experimental validation confirms reductions in accidents, improved inclusivity, and optimized traffic efficiency.

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