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(57) Abstract :
The present invention relates to an IoT-based platform (101) for automated vehicle emission monitoring (102). The system comprises emission sensors (108), wireless modules (109), a cloud server (104), an analytics engine (114), a mobile application (105), and a regulatory dashboard (113). The platform continuously measures pollutants such as CO, NOx, PM, and CO_2, transmitting data in real-time for analysis and compliance verification. It includes predictive analytics (106), blockchain logging (111), and smart city integration (112), providing transparency, reliability, and sustainability in monitoring vehicular emissions.

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