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(57) Abstract :

The invention discloses an IoT-based system (101) for smart vehicle fleet management that integrates vehicle-mounted sensors (201), a communication module (203), a cloud platform (204), and a fleet dashboard (205). The system enables real-time monitoring of fuel consumption, engine diagnostics, GPS location, and driver behavior. Predictive analytics (206) provide maintenance alerts, route optimization, and safety monitoring. An integration layer (207) ensures seamless connectivity with enterprise systems. The invention improves efficiency, reduces operational costs, enhances safety, and supports sustainable fleet management practices.

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