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(51) International classification	:G08G0001010000, G08G0001080000, G08G0001081000, H04W0004024000, G08G0001096500	(71) <b>Name of Applicant :</b> <b>1)NOIDA INSTITUTE OF ENGINEERING &amp; TECHNOLOGY</b> Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(57) Abstract :

The present invention discloses an IoT-based system (100) for intelligent urban traffic flow management. The system integrates IoT sensors (101), adaptive traffic signals (102), predictive analytics module (103), and emergency prioritization unit (104) connected via roadside IoT nodes (107) to a cloud server (105). It enables dynamic traffic control, congestion forecasting, emergency vehicle prioritization, and real-time commuter guidance. The invention significantly reduces congestion, improves urban mobility, lowers emissions, and enhances emergency response time.

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