

Optoelectronic-integrated remote monitoring system for smart cities



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Smart city monitoring platform with GIS-enabled IoT device visualisation, city-wide sensor networks, real-time environmental monitoring, and unified urban infrastructure management.



The article presents an overview of monitoring and control systems based on the Internet of Things. The authors discuss various aspects of these systems, including their architecture, ...



Real-time annotation will enable smart cities to process LiDAR data on the fly, providing immediate insights for infrastructure monitoring, urban planning, and traffic management.



From CCTV cameras to sensors embedded in public infrastructures or even drones and data analytics platforms that monitor the routine duties of municipalities, there is a plethora of ...



Abstract: This article presents the development and implementation of an-optical fiber integrated smart environment with heterogeneous optoelectronic approaches.



This paper presents the development of a real-time cloud-based in-vehicle air quality monitoring system that enables the prediction of the current and future cabin air quality.



Additionally, photonic technologies enhance data transmission within IoT networks, enabling faster communication between sensors and systems, which is crucial for real-time ...



Through a systematic review of 73 publications, researchers highlight how IoT-enabled sensors improve air quality, transportation, disaster management, and resource efficiency in smart ...



In this research, our proposed system offers a real time tracking and monitoring environmental parameters within a specific area through IoT technology and later it can be extended over different ...



Smart traffic management: air quality data can be integrated with traffic systems to optimize flow in high-pollution areas, reducing emissions and improving air quality.

Contact Us

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