OPTO-ELECTRONIC DEVICES & IT'S APPILICATIONS IN SENSOR DEVICES

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ABSTRACT:

Sensor devices are made from solid state electronic devices, which includes: Optical electronic devices like photo-transistors, Light collecting diodes (LCDs), Light emitting diodes (LEDs) and Metal oxide semi-conductor field effects transistors (MOSFETs).These devices are fabricated to form MICRO-POWER OMNI-POLAR- HALL-EFFECT- SENSOR -SWITCHES. The application of micro power hall-effect sensor ICs for mobile applications results to sensor networks, which is highly used in congestion monitoring and controls, motion detections, and tracking of vehicles, crimes, burglaries, surveillance and security systems. Sensor network can be wireless, motion or motionless.
This work will examine optoelectronics devices and it's applications as a sensor network, which can be used to monitor traffics and congestion controls in Air-ports, Train Stations, tunnels , bus terminals using Sensors and close circuit television (CCTV), where necessary.
The research will address the problems associated with the sensitivities of devices based on the beams of electrons emitted (light emitting diode) and distance of collector (light collecting diode) for the purpose of congestions detection and controls in bus terminals, in Airports and as well as in Trains stations.
It will also address the problems of correlations between nodes and hops and as well as distance from one node to another as well as the gateways.
It can also be applicable to be used to monitor and tract Vehicles and trucks and as well security surveillance system in embassies, and city centres.and automatic teller machines for banks and financial institutions.

Keywords— light collecting diodes (LCD), light emitting diodes (LED), optoelectronics, Sensor devices

Professional Biography.

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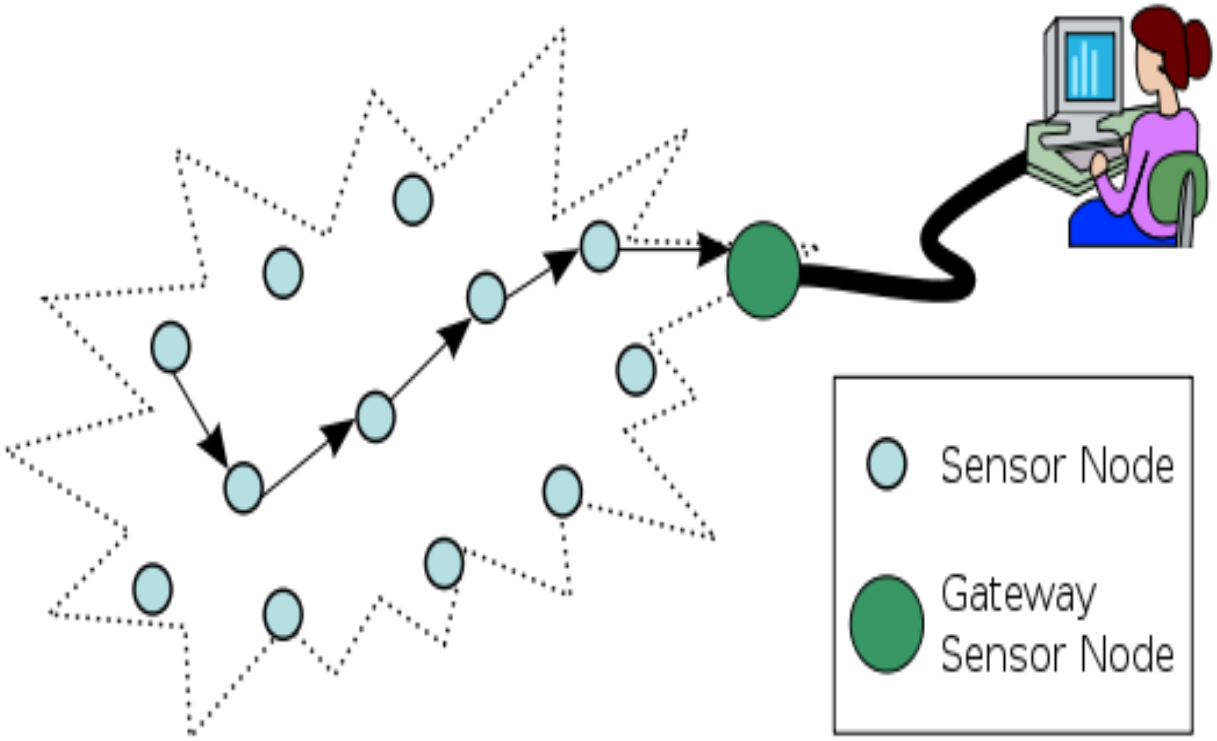
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Any Comments: More details will be on the main paper and power point if accepted.

Some applications in monitoring systems (more details will be in the full paper)



Block Diagram for system monitoring

