Abstract

The BRTS buses run on dedicated corridors, trespassing by other vehicles or objects increase chance of accidents. At present there is no automatic system available for monitoring the movements of bus or avoiding possibility of accidents on BRTS corridor. In this paper we have proposed system that uses WSN to monitor vehicular movement and avoid accidents. Wireless sensor network have become most interesting area of research since last decade. The nodes in wireless sensor networks are capable of monitoring the conditions and co-operatively communicate to the network. Each node in the network has critical impact on the system behaviour, so it is important to simulate the functioning of the nodes before its deployment in real world. In this paper we have simulated an accident monitoring and avoiding system using wireless sensor network for Bus Rapid Transit System. This paper is divided into five sections. Introduction of BRTS and wireless sensor network is given in section I, overview of proposed architecture and its solution is discussed in section II, information of the tool used for simulation is given in section III. Simulation work of proposed architecture for accident avoidance is shown in section IV. Finally conclusion is given in section V.
Simulation of WSN based Accident Monitoring and Avoiding System for BRTS Corridors using Ptolemy II

References

- BRTS survey report by team of JANMARG, Ahmedabad.
- Documentation of "Visualsense: Visual Modeling For Wireless And Sensor Network Systems";

Index Terms

Computer Science

Wireless
Keywords
Accident  Brts  Ptolemy II  Visualsense  Wsn