Abstract

This paper explores direct phone-to-phone communication between the driver’s phone & the owner’s phone to support mobile sensing applications. Direct communication between driver’s phone & owner’s phone is an important in improving data collection efficiency and sharing participatory sensing information in an inexpensive manner. We design a practical and optimized communication mechanism for direct phone-to-phone data transfer to the driver’s phone that strategically enables phone-to-phone communication. This paper makes use of the DTMF technology available on mobile phones to control the vehicle activities. We employ various sensors in the vehicle which sends us the information about the vehicle activities. In case of occurrence of any abnormalities in the functioning of vehicle, the sensors immediately detect these abnormalities & a message is sent to the vehicle owner. By the use of the DTMF technology in the mobile phone, the owner can control these abnormalities from a remote place.

Index Terms

Computer Science  Control Systems

Keywords

Service Oriented System, Performance identification, DTMF, Accident identification, Speed Control, Vehicle Management System.