Abstract

Accidents continue to claim many lives due to human errors that can be avoided by application of technology. Application of intelligent transport systems (ITS) in the Transport industry has gained momentum and some government funded projects have been rolled out in countries like United States, United Kingdom, and Canada among others. However, ITS projects can be very costly and unattainable to developing countries if the right approach is not followed. Perhaps, this explains the reason why many developing countries are yet to embrace the use of ITS despite reporting among the highest road accidents. This paper presents a review on ITS and solutions they can offer in reducing road accidents in developing countries with a focus of Kenya. This study assesses the impact of intelligent transportation systems in alleviating road accidents. Motivation behind this research is to identify ways in which application of ICT can be applied through affordable and effective ways to help the government and other transport
stakeholders in getting a solution to the problem that are affecting the society. A review of intelligent transport systems shows that if they can be effectively applied, accidents can be greatly reduced.

References

2. An Intelligent Assistant for Public Transport Management Martin Molina Department of Artificial Intelligence, Universidad Politécnica de Madrid, Advances in Intelligent Computing, 2005 – Springer
7. H.C Tseng , P.P Tu, Y.C Lee and Ts Wang Study of satellite navigation fleet management system usage in Taiwan with application of C-TAM-TPB Model. 2013 Asian Network for Scientific information
thirteenth ACM international symposium on Mobile Ad Hoc Networking and Computing (pp. 261-262). ACM.


20. efforts to improve road safety in kenya achievements and limitations of reforms in the matatu industry by preston o. Chitere and Thomas N. Kibua Institute of Policy Analysis and Research (IPAR) (2005)


Role of Intelligence Transport System in the Fight against Road Accidents in Kenya


Index Terms

Computer Science

Automated Systems

Keywords

Transportation system, Accident, Safety, Human Error, Intelligent Transport Systems