SafeDrive — Real Time Driver Warning System based on Historical Data

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Abstract

Road traffic accidents is a severe issue which causes great distress and destroys lives of many individuals. In spite of different attempts to solve this problem, it still resides as a major cause of death. This thesis proposes a system, to analyse historical accident data and subsequently identify accident-prone areas and their relevant causes via clustering accident location coordinates. This system, once developed, can be used to warn drivers of accident prone locations and their causes. The users also get the chance to contribute by reporting and reviewing unsafe locations.

In order to achieve this, a system is built, following proper research, requirement elicitation, design, implementation and evaluation.

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Information Systems ~ Information systems applications ~ Data Mining ~ Clustering
Information Systems ~ World Wide Web ~ Web services ~ RESTful web services

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