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Authors	Jian Cheng Sun , Lin Song Wang
Keywords	Traffic Accident , Traffic Macula , Traffic Safety
Abstract	The subject Introduced the analysis method of the black-spot, established the black-spot discriminant model, And gave its algorithm. According to the characteristics of China's traffic flow, we develope black-spot database, so that the work of the black-spot identification can be quickly carried out. The Road black-spot traffic accidents describes the road sections which have significantly higher accident rate than the average level . Road black-spots identification, analysis and processing are widely considered to be the most efficient way to prevent traffic accidents. The identification of Road accident black-spots is the concern of road design, road safety review, operation management, and security studies , The research studies of road black-spot identification, and determines risk road sections, so that countermeasures can be put forward, and we can achieve the goals of design improvement, strengthen management, improvement of road safety operation environment, decrease of the number of traffic accidents and improvement of the whole road traffic safety performance.
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First page example

Road Macula Analysis and Evaluation

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Keywords: Traffic macula; Traffic accident ; Traffic safety.

Abstract. The subject introduced the analysis method of the black-spot, established the black-spot discriminant model, and gave its algorithm. According to the characteristics of China's traffic flow, we developed a black-spot database, so that the work of the black-spot identification can be quickly carried out. The Road black-spot traffic accidents describes the road sections which have significantly higher accident rate than the average level. Road black-spots identification, analysis and processing are widely considered to be the most efficient way to prevent traffic accidents. The identification of Road accident black-spots is the concern of road design, road safety review, operation management, and security studies. The research studies of road black-spot identification, and determines risk road sections, so that countermeasures can be put forward, and we can achieve the goals of design improvement, strengthen management, improvement of road safety operation environment, decrease of the number of traffic accidents and improvement of the whole road traffic safety performance.

Introduction

Highways have boomed in recent years. From the 1990s, highway entered a rapid stage of development in China. However, with the increasing of highway mile every year, the number of accidents increased year by year, namely, the rapid development of highway has two sides, on the one hand it contributed to the development of national economy, on the other hand it also produced a series of serious negative effect - highway traffic accidents. As can be seen from Fig 1, the number of traffic accidents increased year by year, traffic toll presents upward trend.

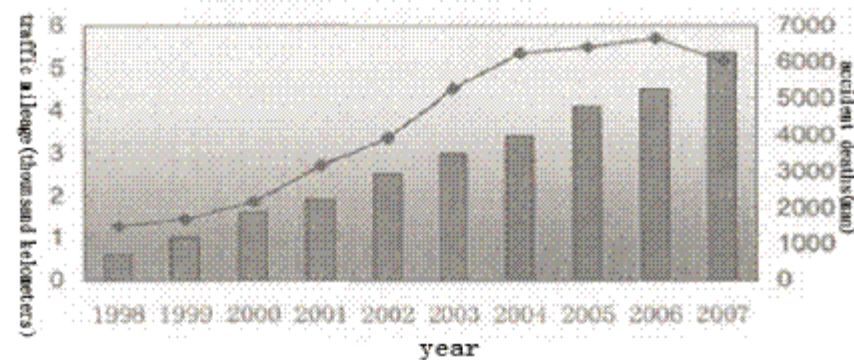


Fig 1 Diagram of highway accident deaths between 1998 and 2007

The world is facing a global road safety crisis, traffic accidents occur each year worldwide result in 300 thousand deaths, 1000-1500 people injured. In 1994, 300 thousand people died in traffic accidents worldwide, it means that 1 person died every minute, and 150 million people suffered from traffic accidents, of which 1% became disabled. The financial cost of traffic accidents may spend billions dollars each year, and the current road traffic accidents have become a topic of common concern.