Abstract

Road Traffic Accidents (RTAs) are a major public health concern, resulting in an estimated 1.2 million deaths and 50 million injuries worldwide each year. In the developing world, RTAs are among the leading cause of death and injury. The objective of this study is to evaluate a set of variables that contribute to the degree of injury severity in traffic crashes. The issue of traffic safety has raised great concerns across the globe and it has become one of the key issues challenging the sustainable development of modern traffic and transportation. The study on road traffic accident causes can identify the key factors rapidly, efficiently and provide instructional methods to the traffic accidents prevention and road traffic accidents reduction, which could greatly reduce personal casualty and property loss caused by road traffic accidents. Using the method of traffic data analysis, can improve the road traffic safety management level effectively.

References

A Review on Injury Severity in Traffic System using Various Data Mining Techniques

1, 11-17.
- Chaozhong Wu, Ming Ma, Hu Lei, Xinping Yan, "Severity Analyses of Single-Vehicle Crashes Based on Rough Set Theory"; 2009 International Conference on Computational Intelligence and Natural Computing.
- Han, Jiawei and Kamber, Micheline. (2006). Data Mining: concepts and Techniques. San Fransisco; Morgan kufman Publishers
- http://rapid-i.com/content/view/181/190/ accessed on May 2014.
- Liping Guan, Weiming Liu, Xiangyuan Yin, Luping Zhang, "Traffic Incident Duration Prediction Based on Artificial Neural Network"; 2010 International Conference on Intelligent Computation Technology and Automation
- Pasko Konjevoda and Nikola Stambuk, "Open-Source Tools for Data Mining in Social Science," Theoretical and Methodological Approaches to Social Sciences and Knowledge Management, pp. 163-176
- Tibebe Shah, Shawndra Hill (2013), "Mining Road Traffic Accident Data to Improve Safety: Role of Road-related Factors on Accident Severity in Ethiopia"

Index Terms

Computer Science

Data Mining
Keywords

Road Traffic Accidents  Data Mining  Influential Factors  Weka  Tanagra  R

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