Abstract

This study aims to address intersections of high-density fire zones with the most traveled roads in Karaj city during peak traffic hours. These zones and roads have been identified through collection of field data and desk research. Then resulting map of two areas, i.e. the most travelled roads and high-density fire zones were superposed and the intersection was obtained that represents the high-risk region. As result, in order to mitigate and prevent future financial losses and mortalities in this region, the recommendations are made with regard to traffic method, and requirements of rule of law to prevent fire incidents and their expansion in available places on the region. The neural network model was used to predict degree of losses. The results suggest that this network predicts the event with accuracy of 0.9938.

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Index Terms

Computer Science
Information Sciences

Keywords

Matlab, Traffic, Fire incidents, Golden time