Spatial Analysis of Accidents in Rasht with Emphasis on Precipitation Element

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Every year, thousands of people die road accidents, which is a national disaster. In this study, the present study examines the relationship between climate and accidents and its spatial pattern in Rasht city. In this regard, the statistics of road accidents in Rasht city for 2017 were collected the Guilan province guidance center and information about temperature, precipitation, sunny hours, and wind speed and humidity variables the regional weather department of the province. The results showed that there is not a clear relationship between climatic variables and accidents, such as mortality, damage and futile, and the cause of accidents is abnormal and is more related to human factors. Also, t-test for pair variables was used to test the significance and monthly mismatch of accidents. The results of the test with the condition of independence of the data showed that there was no significant difference between the incidence rate of different fish accidents at 95% confidence level or no, and the meaninglessness of the difference was proved. The spatial investigation of crashes indicates the occurrence of two accident patterns in the periphery and central areas of the city. Accidents in the central regions of the city were more homogeneous. Also, the study of the cause of accidents showed that most accidents occurred due to non-compliance with the longitudinal and transversal distance, non-compliance, the sudden opening of the car door, the rejection of the red light, unauthorized speed, reversing and unauthorized circulation.

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