FUZZY LOGISTIC REGRESSION BASED ON LEAST SQUARE APPROACH AND TRAPEZOIDAL MEMBERSHIP
FUNCTION

محل انتشار:

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نویسندگان:

Saima Mustafa - Department of Mathematics and Statistics, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi,
Pakistan

Sobia Asghar - Department of Mathematics and Statistics, Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi,
Pakistan

Muhammad Hanif - Department of Mathematics and Statistics, Pir Mehr Ali Shah Arid Agriculture University,
Rawalpindi, Pakistan

خلاصه مقاله:

Logistic regression is a non-linear modification of the linearregression. The purpose of the logistic regression analysis is tomeasure the effects of multiple explanatory variables which can becontinuous and response variable is categorical. In real life there are situations which we deal with information that is vague innature and there are cases that are not explained precisely. In this regard, we have used the concept of possiblisticodds and fuzzy approach. Fuzzy logic deals with linguisticuncertainties and extracting valuable information from linguistic terms. In our study, we have developed fuzzy possiblistic logistic model with trapezoidal membership function and fuzzy possiblistic logistic model is a tool that help us to deal with imprecise observations. Comparison fuzzy logistic regression model with .classicallogistic regression has been done by goodness of fit criteria on real life as an example

کلمات کلیدی:

Logistic Regression, Odd ratio, Goodness of fit, Fuzzy logic, Trapezoidal number

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