

# A Study on the Relationship between Correlation Coefficient and Inverse Regression

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## ABSTRACT

*This paper focuses on the use of an inverse regression model. The discussion provides an idea on how correlation coefficient,  $r$ , in a regression analysis plays an important role in estimation of the value of independent variable  $X$  based on the known value of  $Y$ . The construction of an inverse regression mode is further illustrated. This issue is discussed in detail with analysis using SPSS software.*