



Seminar

SIMPLE WAYS TO INTERPRET EFFECTS IN MODELING ORDINAL CATEGORICAL DATA

Alan A. Agresti
University of Florida

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ATTENDANCE IS FREE OF CHARGE, BUT PLACES ARE LIMITED.

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Abstract: www.stat.unipd.it/fare-ricerca/seminari

SIMPLE WAYS TO INTERPRET EFFECTS IN MODELING ORDINAL CATEGORICAL DATA*

Alan A. Agresti

Distinguished Professor Emeritus | Department of Statistics | University of Florida

We survey effect measures for models for ordinal categorical data that can be simpler to interpret than the model parameters. For describing the effect of an explanatory variable while adjusting for other explanatory variables, we present probability-based measures, including a measure of relative size and partial effect measures based on instantaneous rates of change. We also discuss summary measures of predictive power that are analogs of R-squared and the multiple correlation for quantitative response variables. We illustrate the measures for an example and provide R functions for implementing them.

This work is summarized in recent articles with Maria Kateri (Aachen) and Claudia Tarantola (Pavia).