
Martedì 11 Ottobre 2016 ore 14.00
Aula Demografica 2062 (2° piano – Ed. U7).
Via Bicocca degli Arcimboldi, 8 – 20126 Milano

"Analysis of multinomial counts with joint zero-inflation: an application to health economics"

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Abstract

Zero-inflated regression models for count data are often used in health economics to analyse demand for medical care. Indeed, excess of zeros often affects health-care utilization data. We present some recent advances on the topic. In particular, much of the recent econometric literature on the topic has focused on univariate health-care utilization measures, such as the number of doctor visits. However, health service utilization is usually measured by a number of different (but dependent) counts (e.g., numbers of visits to different health-care providers). In this case, zero-inflation may jointly affect several of the utilization measures. In this talk, we describe a new zero-inflated regression model for multinomial counts with joint zero-inflation. Maximum likelihood estimators in this model are constructed and their properties are investigated, both theoretically and numerically. We apply the proposed model to an analysis of health-care utilization by a population of elderly patients in USA.

Tutti gli interessati sono invitati a partecipare

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