

## Raziskovalni center Ekonomske fakultete

organizira znanstveno - raziskovalni seminar,  
ki bo v **torek, 27. Maja 2014, ob 12:00 uri**  
v **P-006 na Ekonomski fakulteti v Ljubljani.**

Predstavljen bo članek:

### **"Ecometrics in the Age of Big Data: Measuring and Assessing "Broken Windows" Using Administrative Records"**

*avtor: prof. Christopher Winship, Harvard University, ZDA*

"The collection of large-scale administrative records in electronic form by many cities provides a new opportunity for the measurement and longitudinal tracking of neighborhood characteristics, but one that will require novel methodologies that convert such data into research-relevant measures. The current paper illustrates these challenges by developing measures of physical disorder from Boston's "Constituent Relationship Management" (CRM) system. A sixteen-month archive of the CRM database contains more than 300,000 address-based requests for city services, many of which reference physical incivilities (e.g., graffiti removal). We carry out three ecometric analyses, each building off the previous. Analysis 1 examines the *content* of the measure, identifying 29 items that constitute two independent constructs, *private neglect* and *public denigration*. Analysis 2 assesses the *validity* of the measure by measuring the "civic response rate" across neighborhoods using investigator initiated neighborhood audits. Indicators of civic response were then extracted from the CRM database, so that measurement adjustments could be automated. These adjustments were calibrated against measures of litter from the objective audits. Analysis 3 examines the *reliability* of the composite measure of physical disorder at different spatio-temporal windows, finding that census tracts can be measured at two-month intervals, and census block groups at six-month intervals. The final measures are robust, can be tracked longitudinally, and are virtually costless, providing an example of how new forms of administrative data can yield ecometric measurement and guide future research."

Na brezplačni seminar se lahko prijavite v Službi za znanstveno raziskovalno delo, po telefonu (01) 58-92-490, ali po e-pošti [research.seminars@ef.uni-lj.si](mailto:research.seminars@ef.uni-lj.si), in sicer do

ponedeljka, 26.5.2014.

**Vljudno vabljeni!**