

WORKSHOP ABSTRACT

SHARE dataset and analysis of nonstandard data: examples and applications

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Survey of Health, Ageing and Retirement in Europe (SHARE) is a multidisciplinary and cross-national panel database, covering 27 European countries and Israel, with micro data on health, socio-economic status and social and family networks of about 140,000 individuals aged 50 or older. Due to its large scale and data quality, it has become subject to numerous applications in past fifteen years, in terms of statistics one could easily describe it as a "toy for statisticians". The workshop will focus on usages of SHARE data with methods from the analysis of nonstandard data, developed for large datasets, largely symbolic and functional data analysis, which are being ever more frequently used in statistics and econometrics. We will present statistical theory behind those methods and use many of them as implemented in R to present interesting and novel applications with SHARE data, based on some of the most recent functional, interval and histogram regressions, clustering and dimensionality reduction methods.

The participants should be familiar with R programming and have it installed on their computer, with the latest version of R. The use of R Studio is also encouraged.