

How can innovative data collection look like to help reducing the response burden for time-use surveys? Results from the 2019 NTTS Hackathon

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Abstract

Data hackathons are intense events where teams of statisticians, data scientists, computer programmers, graphic designers and subject-matter specialists try to tackle data problems and prototype creative data analytics products. Some data hackathons are intended for educational purposes, although in many cases the goal is to create usable data analytics products. The second European Big Data Hackathon was organised in 2019.

Participants from across Europe had two days to experiment with data and innovate new indicators on time use. The hackathon was based on a large amount of sensor and user input data by volunteers. The collection through mobile phones was the first time for Eurostat.

The aim of this paper is to present the data preparation phase for the data collection, display the possibilities and challenges for time use measurement via smartphone, and draw lessons learned as well as conclusions for the way forward.

Reference:

(*submitted to JoS*) M. Zeni, I. Bison, F. Reis, B. Gauckler, F. Giunchiglia: "Improving time use measurement with personal big data collection - the experience of the European Big Data Hackathon 2019"

Keywords

Smart surveys; time use; personal big data; response burden reduction