NEW AVENUES OF DATA SCIENCE IN OFFICIAL STATISTICS

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ABSTRACT

As a consequence of the COVID-19 outbreak, face-to-face (CAPI and PAPI) data collection methods have been replaced by remote collection methods, such as telephone and web surveys. Administrative data sources, on the other hand, are important resources that National Statistical Offices need to make wider and better use in order to reduce respondent burden, costs, and improve the quality and efficiency across the entire statistical production system. Furthermore, the development of big data and its potential as a third source of data for official statistics poses a range of opportunities, challenges and risks. Eurostat recently identified smart statistics as the future role of official statistics in a world impregnated with smart technologies. Trusted Smart Statistics are, therefore, the natural evolution of official statistics in the new datafied world.

In this seminar, we will explore these (and other) new avenues of official statistics, focusing on how data science copes with these new challenges. Special focus will be given to ethical issues, privacy preserving, coverage and selectivity, small area estimation, geospatial information and machine learning models.

SPEAKER

Pedro Campos is currently Director of Methodology in Statistics Portugal and Assistant Professor at the Faculty of Economics, University of Porto, where he got his Phd in Business Studies. He is also researcher at INESC TEC, where he leads the line of Agent-Based Modelling at LIAAD (Laboratory of Artificial Intelligence and Decision Support). Pedro is Vice-President of IASE (the International Association for Statistical Education) and Deputy Director of the International Statistical Literacy Project of the ISI.