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NEW APPROACHES TO EDITING AND IMPUTATION – SELECTED RESULTS AND EXPERIENCES FROM THE EUREDIT PROJECT

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ABSTRACT

The EUREDIT project was a large international research project funded by the European Union that involved 12 partners from 7 countries, made up of a mix of National Statistical Institutes (NSIs) and academic organisations. The primary aim of the project was to investigate "new" methods for editing and imputation for the types of data collected by NSIs and to compare them with the "standard" methods currently in use. The new methods investigated in EUREDIT were robust model-based methods and methods based on application of neural net and related methodologies. The comparisons were based on a common set of 6 specially created real (or as realistic as possible) datasets covering the range of data types and error and missingness characteristics found in practice.

In this presentation I will present a short overview of the project and the methodology it employed for comparing methods. I will then briefly review the main "new" methods that were focus of EUREDIT. Selected results from the comparative evaluation of these methods (and more traditional methods) will then be presented for two edit and imputation applications, the UK Annual Business Inquiry and the UK Census 1% household data file (the SARS), and for a missing data application based on the Danish Labour Force Survey. The presentation will conclude with an overview of the lessons learnt in EUREDIT and suggestions for further research.

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