

Targeted record swapping on grid-based statistics in Hungary

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Abstract

Developing and applying statistical disclosure control (SDC) techniques on grid-based statistics are considered as major challenges in many countries, including Hungary. Appropriate SDC methods are needed also for the protection of grid-based official statistical information to guarantee that no sensitive data is disclosed after the data is released.

This paper describes the development and the first application of grid-based statistical disclosure control method on a Hungarian grid-based dataset which can be applied to many kinds of official statistical surveys (social, business or other). This new method was first introduced in the 2011 Hungarian Population and Housing Census data presented in 1km² grids, broken down into age groups and sex. The document presents how we selected and developed a suitable SDC method taking into consideration our data protection regulations and the peculiarities of our data, and also how we completed and adapted it in practice.