

Methodologies for multisource processes: Overview of the Istat activities and open problems

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Abstract

In 2016, a deep methodological review of the official statistical production system began, which moved from a traditional system to a new innovative functional scheme based on an integrated and multi-source approach. This paper starts with a description of the Istat new production process. In this context, two very relevant aspects are dealt with. The first aspect concerns the problem of choosing between two data sources. The first consists of a sample survey while the second source is represented by a non-probabilistic subset of the units belonging to the population. The second aspect, after having identified the main research issues, delves into two of them. It is concerned with the problem of quality and its documentation. In this paragraph, after listing the main lines of research, only two of them are dealt with: The evaluation of the accuracy of register estimates; the estimation techniques for the Integrated Census and Social Survey System exploiting unit level auxiliary information coming from both Population Registers and census sample surveys based on a master sample design

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