



## **Application of response patterns to the evaluation of the 2010 Population Census questionnaire design: a look at the disability topic**

Andréa Borges Paim\*

Brazilian Institute of Geography and Statistics, Rio de Janeiro, Brazil – andrea.borges@ibge.gov.br

Rodrigo Aires Lemes

Brazilian Institute of Geography and Statistics, Rio de Janeiro, Brazil – rodrigo.lemes@ibge.gov.br

Gustavo Junger da Silva

Brazilian Institute of Geography and Statistics, Rio de Janeiro, Brazil – gustavo.junger@ibge.gov.br

### **Abstract**

The use of handheld computer as a collection instrument in the 2010 Population Census allowed the questionnaire to be applied by thematic blocks, that is, each question was answered by everyone in the household at the same time. The interviewing process per person implies that the entire questionnaire is applied to each resident of the household, while the blocks allow each thematic group to be asked only once for all household members, which gives some flexibility to the process of data collecting. However, there are sensitive issues – as disability - whose quality of the collected data may be affected more directly by questionnaire design type. Therefore, the aim of this work is to verify if filling out the questionnaire vertically (questions by thematic blocks) influenced the quality of data on people with disabilities, using the method of response patterns.

**Keywords:** Population census; questionnaire design; response patterns; disability.