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Small area estimation combining data from two surveys

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ABSTRACT

Many often two surveys conducted independently with same or different objectives, may have some auxiliary variables in common. The first survey, which has small sample size, collects both variable of interest as well as auxiliary variables. The second survey, relatively larger in sample size, has only some auxiliary variables in common to the first survey. A small area predictor is proposed by combining data from these two surveys. Empirical results show that the proposed small area predictor can lead to efficiency gains when two surveys are combined.

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