

Gupta, Sat; Tuck, Anna; Gill, Tracy Spears; Crowe, Mary
Optional unrelated-question randomized response models. (English) Zbl 1293.62021
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Summary: We propose a generalization of Greenberg's unrelated-question randomized response model allowing subjects the option of giving a correct response if they find the survey question nonsensative, and to give a scrambled response if they find the question sensitive. Models are provided for both the binary response and the quantitative response situations. Mathematical properties of the proposed models are examined and validated with computer simulations.

MSC:

62D05 Sampling theory, sample surveys

Cited in 4 Documents

Keywords:

parameter estimation; randomized response technique; unrelated-question model; optional scrambling

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