

Welcome and Overview: NISS Workshop on Analyzing Complex Survey Data with Missing Item Values

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NISS Workshop on Analyzing Complex Survey
Data with Missing Item Values

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Disclaimer

The views expressed here are those of the author and do not necessarily reflect the policies of the U.S. Bureau of Labor Statistics.

I. Goals for Today

- A. Review current state of research and applications for work with incomplete data and imputation for complex designs
- B. Technology transfer
- C. Open research questions
 - Application context
 - Dominant features that affect feasibility, statistical properties
- D. Prospective joint work

II. Prospective Use of Concepts and Methods in Specific Applications

A. Inferential Goals

1. Moderately large vectors of parameters
(subpopulation means, totals, coefficients)
2. Account for multiple sources of uncertainty
3. Identify which sources dominate (2)

II. Concepts and Methods(Continued)

- B. Broad Applicability of Procedures: Full vector from (A.1)
 - 1. Robustness against moderate deviations from customary conditions
 - 2. Detection of, and robustness against substantial failure of implicit or explicit models (autumn, 2008)
 - 3. Agency decision processes on adoption of nonresponse adjustment methods can:
 - a. Be dominated by constraints, uncertainties
 - b. Resemble satisficing or minimax

II. Concepts and Methods(Continued)

C. Trade-offs between inferential quality and cost

- Stakeholder quality criteria may not align with usual MSE
- Cost: Design and fieldwork modifications (paradata)
- Cost: Labor for model development, validation and monitoring

D. Accessible communication of (B) and (C) with non-specialists

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