

Multiple Imputation

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April 26, 2006

Outline

- Multiple Imputation (MI)
- How to impute (i.e. how to fill in values)
- How to analyze and draw inferences
- How many times to impute
- Alternatives to MI

- Applications
- Software

Multiple Imputation -

- ❑ Idea: replace each missing item with 2 or more acceptable values, representing a distribution of possibilities (Rubin, 1987).
- ❑ This results in m complete datasets (each one is analyzed using standard methods, and estimated parameters are averaged).
- ❑ Can often be generated from simple modifications of existing single-imputation methods such as hot-deck or regression.