

Topic ii

New Methodologies for Protecting Data (Disclosure Limitation)

- Univ. Edinburgh: Beata Nowok
 - Utility of synthetic microdata generated using parametric and tree-based methods
 - *Additional (machine learning) methods included in the R-package **synthpop***
- Duke Univ., U.S. Census Bureau & Cornell Univ.: Samuel Haney, Ashwin Machanavajjhala, Mark Kutzbach, Matthew Graham, John Abowd, Lars Vilhuber
 - Formal privacy protection for data products combining individual and employer frames
 - *Algorithms with provable privacy guarantees in a complex setting*

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New Methodologies for Protecting Data (Disclosure Limitation)

- Universitat Politècnica de Catalunya / Netherlands: Jordi Castro, Jose A. Gonzalez, Anco Hundepool
 - Using BCD CTA for difficult tables: a practical experiment with a real Eurostat table
 - *Advantages of Block Coordinate Descent heuristic for Controlled Tabular Adjustment method*
- United States of America: Philip Steel, James Fagan, Vitoon Harusadangkul, Paul Massell, Richard Moore Jr., John Slanta, Bei Wang
 - Techniques to apply cell suppression to large sparse linked tables and some results using those techniques on the 2012 (US) Economic Census
 - *Description of the methodology implemented in the secondary cell suppression software for the US Economic Census data*

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 - Utility of synthetic microdata generated using parametric and tree-based methods
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- **Questions:**
 - In which situation to recommend use of machine learning methods?
 - What advantages/disadvantages of the machine learning methods have been observed?

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- **Question:**
 - How do the proposed algorithms compare to other additive (or multiplicative) noise SDC methods for aggregated data?

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- **Question:**
 - When should CTA users choose BCD?

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 - *Description of the methodology implemented in the secondary cell suppression software for the US Economic Census data*
- **Question:**
 - How strongly is the implementation/algorithm tied to the application (e.g. US Economic Census tables)?