international institute of social history

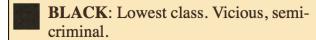
Measures of occupational classification. A collective problem?

2017-03-22, Demography Today Lecture Series, Madrid Richard Zijdeman



Lack of comparability

- Many different occupational classifications
- Differences in mobility studies could results from different classification methods (Kaelble 1985)



DARK BLUE: Very poor, casual. Chronic want.

LIGHT BLUE: Poor. 18s. to 21s. a week for a moderate family

PURPLE: Mixed. Some comfortable others poor

PINK: Fairly comfortable. Good ordinary earnings.

RED: Middle class. Well-to-do.

YELLOW: Upper-middle and Upper classes. Wealthy.

A combination of colours - as dark blue or black, or pink and red - indicates that the street contains a fair proportion of each of the classes represented by the respective colours.

Charles Booth (1886-1903)



Current solution: 2-step procedure

Code into the concept, first:

- Classify into the concept
- Link the measure of stratification to the concept



New problems

- 1. What concept?
- Historical International Standard Classification (HISCO)
- OCCHISCO
- PST
- 2. Not all measures link to all concepts
- 3. Adaptability of concepts (new versions)

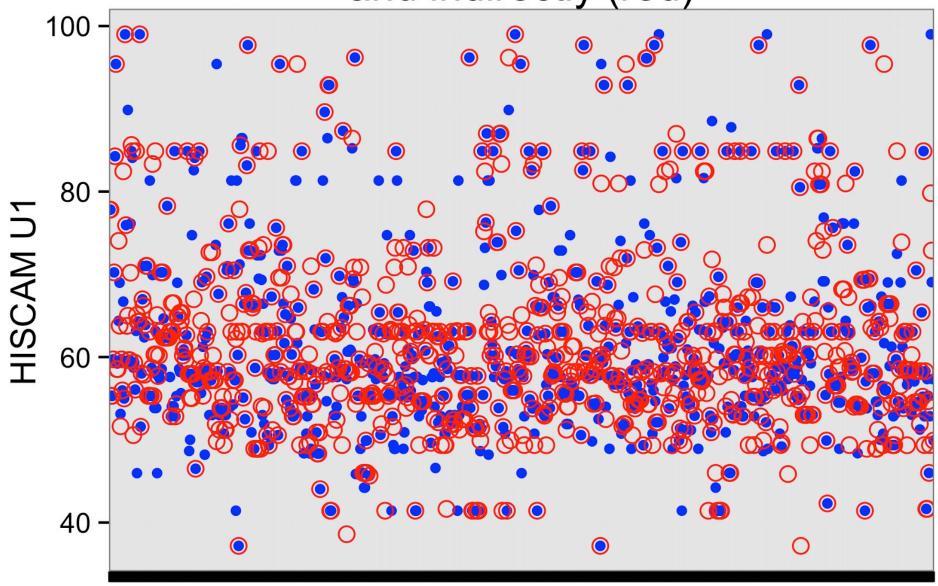


Is this a substantive problem?

Illustrative example:

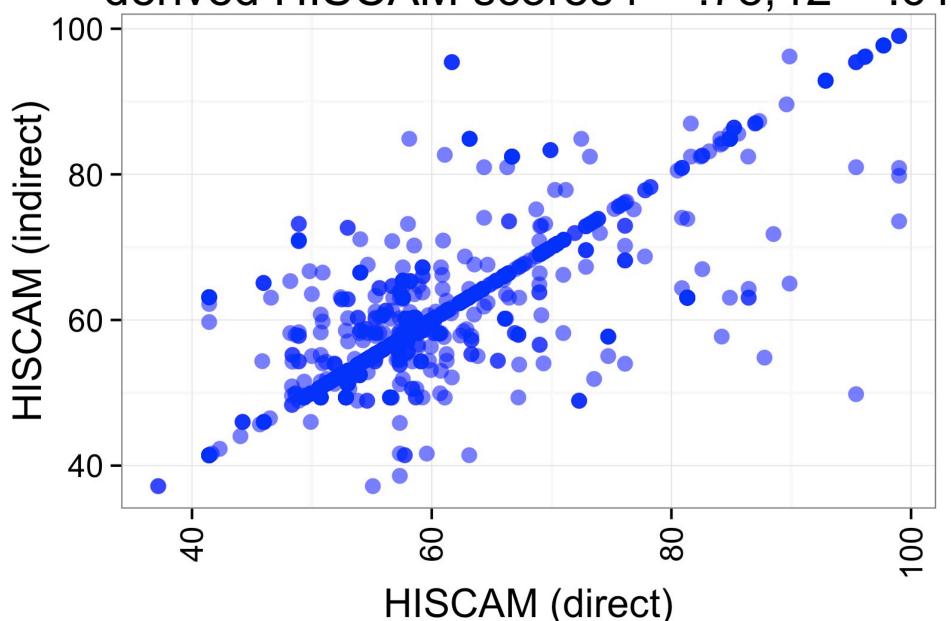
- Subset of SAME occupational titles from NAPP and HISCO
- Link these occupations to HISCAM
- For HISCO directly provided by HISCAM people
- For OCCHISCO indirectly through a mapping

HISCAM scores derived directly (blue) and indirectly (red)



occupational entries

Correlation between directly and indirectly derived HISCAM scores r = .78, r2 = .61





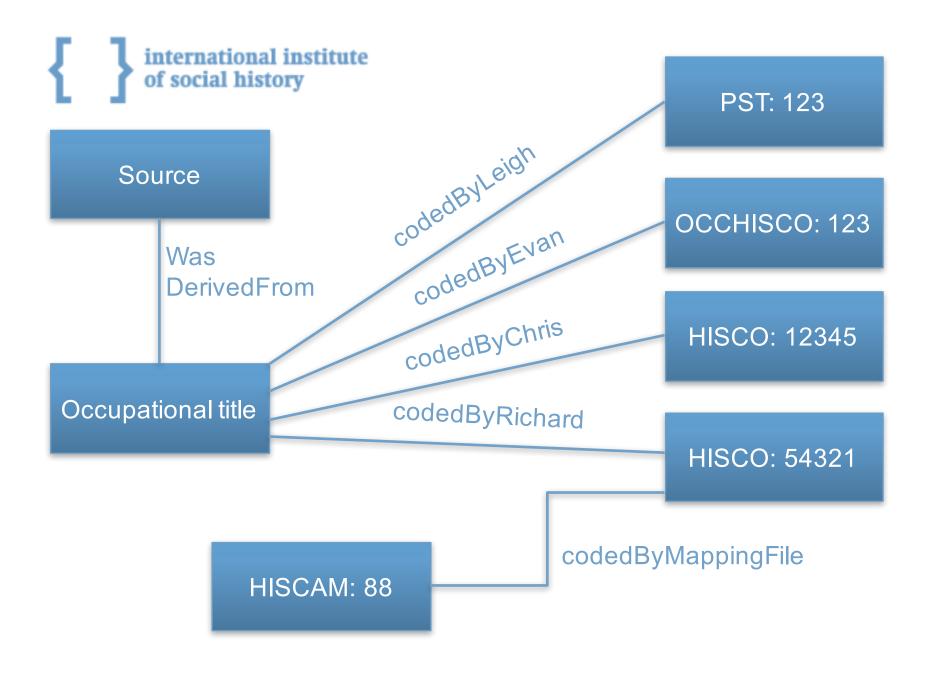
So yes, this is problematic

- 'Lost' 41% explained variance
- Cf. regression models: usually not above 30%
- HISCAM often both as dependent and independent variable



Towards a solution

- 1. Share what you've coded already
- helps coding new records
- allows for intra-coder reliability
- 2. Apply machine learning algorithms (Chris;))
- Manually coded data as gold standard
- Use information from other directly coded concepts
- 3. Use linked data for provenance





Extended possibilities of linkage

- Linkage to texts (occupations in newspapers)
- Linkage to public resources: Wikipedia



DEMO



A collective solution:

- Go beyond the 'best' concept and 'best' scheme
- Share coded data
- Use coded data to code new occupations



Thank you

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