

PRIVACY IN STATISTICAL DATABASES

Dubrovnik, Croatia, Sep. 14-16, 2016



PROGRAMME

WEDNESDAY, 14 SEPTEMBER

- 9:00 – Registration
- 10:00 – Opening Session

Disclosure Risk Assessment

Session Chair: Anna Oganian

- 10:15 - Rank-based record linkage for re-identification risk assessment. *Krish Muralidhar and Josep Domingo-Ferrer*
- 10:45 - Computational issues in the design of transition probabilities and disclosure risk estimation for additive noise. *Sarah Giessing*
- 11:15 - Potential of Disclosure Limitation Methods for Census Microdata in Japan. *Shinsuke Ito, Naomi Hoshino and Fumika Akutsu (*)*

11:35 – Coffee Break

Remote and Cloud Access

Session Chair: Sarah Giessing

- 12:00 - Accurate estimation of structural equation models with remote partitioned data. *Joshua Snoke, Timothy Brick and Aleksandra Slavkovic*
- 12:30 - A new algorithm for protecting aggregate business microdata via a remote System. *Yue Ma, Yan-Xia Lin, James Chipperfield, John Newman and Victoria Leaver*
- 13:00 - Towards a national remote access system for register-based research. *Annu Cabrera*

13:30 – Lunch

Synthetic Data

Session Chair: Krish Muralidhar

- 15:30 - Creating an “academic use file” based on descriptive statistics: synthetic microdata from the perspective of distribution type. *Kiyomi Shirakawa, Yutaka Abe and Shinsuke Ito*
- 16:00 - COCOA: a synthetic data generator for testing anonymization technique. *Vanessa Ayala-Rivera, A. Omar Portillo-Dominguez, Christina Thorpe and Liam Murphy*
- 16:30 - Practical Experiences of Providing Bespoke Synthetic Data. *Gillian Raab, Beata Nowok and Chris Dibben (*)*
- 16:50 - Utility of Synthetic Microdata Generated Using Tree-Based Methods. *Beata Nowok (*)*

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THURSDAY, 15 SEPTEMBER

Microdata and big data masking

Session Chair: Eric Schulte-Nordholt

- 09:00 - Propensity score based conditional group swapping for disclosure limitation of strata-defining variables. *Anna Oganian and Goran Lesaja*
- 09:30 - A rule-based approach to local anonymization for exclusivity handling in statistical Databases. *Jens Albrecht, Marc Fiedler and Tim Kiefer*
- 10:00 - Perturbative data protection of multivariate nominal datasets. *Mercedes Rodriguez-Garcia, David Sánchez and Montserrat Batet*

10:30 – Coffee Break

Microdata and big data masking II

Session Chair: Jordi Castro

- 11:00 - Spatial smoothing and statistical disclosure control. *Edwin de Jonge and Peter-Paul de Wolf*
- 11:30 - Anonymization in the time of big data. *Josep Domingo-Ferrer and Jordi Soria-Comas*

Co-utile Anonymization

Session Chair: Josep Domingo-Ferrer

- 12:00 - Enabling collaborative privacy in user-generated emergency reports. *Amna Qureshi, Helena Rifà-Pous and David Megías*

12:30 - Lunch

Protection Using Privacy Models

Session Chair: Shinsuke Ito

- 14:30 - On-average KL-privacy and its equivalence to generalization for max-entropy Mechanisms. *Yu-Xiang Wang, Jing Lei and Stephen E. Fienberg*
- 15:00 - Correcting finite sampling issues in entropy I-diversity. *Sebastian Stammer, Stefan Katzenbeisser and Kay Hamacher*
- 15:30 - Some Ideas to Reach k-anonymity: Going Beyond Local Suppression. *Maxime Bergeat and Maël Buron (*)*

In memoriam of Larry Cox

- 15:50 - Round table devoted to his contributions

16:30 - Coffee Break

17:00 - Guided visit to Dubrovnik

20:15 - Gala Dinner

(Restaurant KLARISA, Poljana P. Miličevića 4, 20000 Dubrovnik)

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FRIDAY, 16 SEPTEMBER

Tabular Data Protection

Session Chair: Peter Paul de Wolf

- 09:30 - Revisiting interval protection, a.k.a. partial cell suppression, for tabular data. *Jordi Castro and Anna Via*
- 10:00 - Precision threshold and noise: an alternative framework of sensitivity measures. *Darren Gray*
- 10:30 - Empirical analysis of sensitivity rules: cells with frequency exceeding 10 that should be suppressed based on descriptive statistics. *Kiyomi Shirakawa, Yutaka Abe and Shinsuke Ito*
- 11:00 - A second order cone formulation of continuous CTA model. *Goran Lesaja, Jordi Castro and Anna Oganian*

- 11:30 – Closing Remarks

(*) - Short paper in USB proceedings