

JOINT UNECE/EUROSTAT WORK SESSION ON STATISTICAL DATA CONFIDENTIALITY

20-22 September 2017, Skopje
 Ministry of Foreign Affairs, Boulevard "Philip II of Macedon" Nr. 7

25 September 2017

DAY 1 – Wednesday 20 September

08:30	Registration
09:30	Welcome and Opening Apostol Simovski, Acting Director General of the State Statistical Office, The former Yugoslav Republic of Macedonia
09:45	Adoption of the agenda; Designation of officers
09:55	Topic 1: Utility and disclosure risk in anonymised data Session Organizer: Josep Domingo-Ferrer (Universitat Rovira i Virgili)
10:05	Mahalanobis distance-based record linkage revisited Krish Muralidhar (University of Oklahoma)
10:20	Investigating New Methods for Creating Anonymized Microdata Based on Japanese Census Data Shinsuke Ito (<i>Chuo University</i>)
10:35	Questions to authors
10:50	Coffee Break
11:10	Empirical Comparison of Anonymization Methods Regarding Their Risk-Utility Trade-Off Sara Ricci (<i>Universitat Rovira i Virgili</i>)
11:20	A Study of the Impact of Synthetic Data Generation Techniques on Data Utility using the 1991 UK Samples of Anonymised Records Jennifer Taub (<i>University of Manchester</i>)
11:35	Measures for information loss in protected data Mira Todorova (<i>State Statistical Office, The former Yugoslav Republic of Macedonia</i>)
11:50	Questions to authors
12:00	General discussion and conclusions
12:15	Reception and lunch break
14:00	Topic 2: Microdata and output protection Session organizer: Krish Muralidhar (University of Oklahoma)
14:10	A new shiny GUI for sdcMicro Bernhard Meindl (<i>Statistics Austria</i>)
14:25	Genetic algorithms for matrix representations and their application to synthetic data generation Yingrui Chen and Mark Elliot (<i>University of Manchester</i>)
14:40	Questions to authors

14:50	Recognising real people in synthetic microdata: risk mitigation and impact on utility Beata Nowok (<i>University of Edinburgh</i>)
15:05	A unified approach to the assessment of both identification and attribution risk Duncan Smith (<i>University of Manchester</i>)
15:20	Questions to authors
15:30	General discussion and conclusions
15:40	Coffee Break
16:00	Topic 3: Confidentiality of big data and special types of data Session organizers: Peter-Paul de Wolf (Statistics Netherlands) and Josep Domingo-Ferrer (Universitat Rovira i Virgili)
16:10	Data confidentiality and statistical registers in the Macedonian statistical system Mirjana Boshnjak (State Statistical Office, The former Yugoslav Republic of Macedonia)
16:25	Tabular Data anonymization with Big Data tools. (Secondary Cell Suppression via Tabu search) Said Khadraoui (<i>Secure Data Access Center</i>)
16:40	Location related risk and utility Peter-Paul de Wolf (<i>Statistics Netherlands</i>)
16:55	Questions to authors
17:10	General discussion and conclusions
17:20	End of day 1

17:45 - 18:45 sdcTools User Group Meeting

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DAY 2 – Thursday 21 September

09:00	Reflections from day 1
09:15	Topic 4: Access to microdata Session Organizers: Aleksandra Bujnowska (Eurostat) and Annu Cabrera (Statistics Finland)
09:25	Secure Research Access in the UK - The Five Safes Peter Stokes (<i>Office for National Statistics, the United Kingdom</i>) and Felix Ritchie (<i>University of the West of England</i>)
09:35	Best international practices in local contexts Natalia Volkow (<i>National Institute of Statistics and Geography, Mexico</i>)
09:50	Questions to authors
10:00	Evolution of Statistics Canada Research Data Centers users Donna Dosman (<i>Statistics Canada</i>)
10:15	On-site Service and Safe Output Checking in Japan Ryo Kikuchi (<i>National Statistics Center, Japan / Nippon Telegraph and Telephone</i>)
10:30	Questions to authors
10:40	Coffee Break
11:00	Digital act in France: impact on public statistics Michel Isnard (<i>National Institute of Statistics and Economic Studies, France</i>)
11:15	A Proposal of a Simple and Secure Statistical Processing System using Secret Sharing Kiyomi Shirakawa (<i>Hitotsubashi University / National Statistics Center, Japan</i>) and Satoshi Takahashi (<i>Nippon Telegraph and Telephone</i>)
11:30	Designing confidentiality training Felix Ritchie (<i>University of the West of England</i>)
11:45	Questions to authors
11:55	General discussion and conclusions
12:10	Lunch Break
13:30	Topic 5: Methods and tools for tabular data protection Session Organiser: Sarah Giessing (Destatis, Germany)
13:40	Statistical Confidentiality in the European Business Statistics Aleksandra Bujnowska (<i>Eurostat</i>)
13:55	Center of Excellence on Statistical Disclosure Control Maël Buron (<i>National Institute of Statistics and Economic Studies, France</i>)
14:05	Questions to authors
14:15	Establishing an Automated Confidentiality Service in Stats NZ Antony Gomez (<i>Statistics New Zealand</i>)
14:30	Harmonization of the protection of social statistics at Statistics Finland Miika Honkala (<i>Statistics Finland</i>)
14:40	Questions to authors

14:50	On using an improved Benders method for cell suppression Daniel Baena Mirabete (<i>Universitat Politècnica de Catalunya</i>)
15:00	Constrained optimisation for tabular suppression in the Australian Bureau of Statistics Bernadette Fox (<i>Australian Bureau of Statistics</i>)
15:15	Disclosure control that accounts for survey realities: assessing the risk using G-Confid Peter Wright (<i>Statistics Canada</i>)
15:30	Questions to authors
15:45	General discussion and conclusions
16:00	Coffee Break
16:20	Topic 6: Census 2021 - Confidentiality issues Session Organizer: Eric Schulte Nordholt (<i>Statistics Netherlands</i>)
16:30	Testing CTA as Additivity Module for Perturbed Census 2021 EU Hypercube Data Sarah Giessing (<i>Destatis, Germany</i>)
16:45	The European Census Hub 2011 Hypercubes - Norwegian SDC Experiences Johan Heldal (<i>Statistics Norway</i>)
17:00	The Modernization of Statistical Disclosure Limitation at the U.S. Census Bureau Aref Dajani (<i>US Census Bureau</i>)
17:10	Questions to authors
17:25	Statistical disclosure control considerations of publishing data on grid squares and territorial units in the application STAGE Junos Lukan (<i>Statistical Office of the Republic of Slovenia</i>)
17:40	Creation of synthetic microdata in 2021 Census Transformation Programme (proof of concept) Robert Rendell (<i>Office for National Statistics, the United Kingdom</i>)
17:50	Questions to authors
18:00	End of day 2

20:00 Subscription Dinner

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DAY 3 – Friday 22 September

09:00	Reflections from day 2
	Topic 6: Census 2021 - Confidentiality issues (cont.)
09:15	Secure statistical computation system on encrypted data: An empirical study of secure regression analysis for official statistics Satoshi Takahashi (<i>Nippon Telegraph and Telephone, Japan</i>)
09:30	Progress towards a table builder with in-built disclosure control for 2021 Census Keith Spicer (<i>Office for National Statistics, the United Kingdom</i>)
09:40	Questions to authors
09:50	General discussion and conclusions
10:10	Coffee Break
10:30	Topic 7: Public use files / open data - Future availability of information Session organizer: Eric Schulte Nordholt (Statistics Netherlands)
10:40	Panel discussion with: Tanvi Desai (<i>University of Essex</i>) Blagica Petreski (<i>Finance Think</i>) Felix Richie (<i>University of the West of England</i>)
11:40	Questions to panellists, discussion and conclusion
12:10	Outcome of discussions on future work
12:50	Adoption of the report, conclusion of the meeting
13:00	End of the meeting