



12th NIC.br Annual
Workshop
on Survey
Methodology
São Paulo, Brazil - 2022

METHODOLOGICAL CHALLENGES FOR DATA PRODUCTION IN THE CONTEXT OF EMERGING DIGITAL TECHNOLOGIES

August 29 to September 01, 2022
Brazilian Network Information Center – NIC.br

CONCEPT NOTE

I. THE EVENT

The Annual Workshop on Survey Methodology has been conducted since 2011¹ by the Regional Center for Studies on the Development of the Information Society (Cetic.br) at NIC.br and is co-organized by the National School of Statistical Sciences (ENCE) of the Brazilian Institute for Geography and Statistics (IBGE). The event is composed of lectures and short courses that include interactive activities, practical examples, and case studies. Its objective is to discuss emerging topics on survey methods for data production, and it is aimed at data producers and users, especially in the field of ICT.

The 12th edition of the workshop will address methodological challenges for data production in the context of emerging digital technologies, such as Artificial Intelligence (AI).

II. 12th EDITION: METHODOLOGICAL CHALLENGES FOR DATA PRODUCTION IN THE CONTEXT OF EMERGING DIGITAL TECHNOLOGIES

Emerging digital technologies such as Artificial Intelligence (AI), robotics and Internet of Things (IoT) are spurring profound social and economic change, transforming society. Such technologies offer enormous potential for socioeconomic development. In this context of rapid change, statistical data production has become crucial for policymakers, researchers, and a wide range of stakeholders.

As a result, data producers are facing an increasing demand for high-quality, timely, reliable, and disaggregated data for monitoring the implications of the adoption of such technologies in different segments of society. Alternative methodological approaches, e.g. multi-mode data collection and methods for dealing with nonresponse, new data sources such as big data, AI and machine learning algorithms are playing an increasingly important role in statistical data production.

¹ More information on the past editions available at: <https://workshop.metodologia.cetic.br/> *
*2022 website under construction

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In this scenario, the 12th NIC.br Annual Workshop on Survey Methodology will debate the implications of AI for the future, deliver short courses on new methodological approaches for the data production and discuss practical cases and projects using artificial intelligence, machine learning and other emerging methods and tools. Speakers and participants will be invited to share their experiences – from different perspectives – on the methodological challenges for data production in the context of emerging digital technologies.

III. PROGRAMME

| TIME | DAY 1 | |
|---------------------------|---|--|
| 08:40-09:15 | Welcome coffee | |
| 09:15-09:30 | Welcome remarks | Opening Session: Prof. Demi Getschko, NIC.br (Brazil) Prof. Gustavo da Silva Ferreira, ENCE/IBGE (Brazil) |
| 09:30-11:00 | Keynote: Artificial Intelligence and the Political Philosophy of the Future | Speaker: Prof. Gray Cox, College of the Atlantic (USA) Discussant: Prof. João Paulo Veiga, USP/C4AI (Brazil) |
| Coffee Break & Networking | | |
| 11:20-11:50 | Session 1: ROAM-X Framework: A human rights perspective and AI | Speaker: Marelza Oliveira, UNESCO (France) |
| 11:50-12:20 | Session 2: Informing AI policy: how can we move from Principles to practice? | Speaker: Luis Aranda, OECD (France) |
| 12:20-12:40 | Q&A | Moderator: Alexandre Barbosa, Cetic.br/NIC.br (Brazil) |
| Lunch Break (12:40-13:40) | | |
| 13:40-15:10 | Session 3: Skills, Technology, and Careers in the Future of Work | Speaker: Morgan Frank, University of Pittsburgh (USA) Moderator: Prof. Alvaro Comin, USP/C4AI (Brazil) |
| Coffee Break & Networking | | |
| 15:30-17:00 | Session 4: Measuring Digital Skills through Surveys | Speaker: Prof. Ellen Helsper, LSE (UK) Moderator: Fabio Senne, Cetic.br/NIC.br (Brazil) |

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| TIME | DAY 2 | |
|---------------------------|---|---|
| 08:40-09:00 | Welcome coffee | |
| 09:00-10:40 | Short Course I: Maintaining Quality When Switching to Multi-Mode Data Collection | Speaker: Prof. David Marker, Marker Consulting, LLC (USA) |
| Coffee Break | | |
| 11:00-12:30 | Short Course I: Can we reduce/measure potential bias in big data enough to use to produce official statistics? | Speaker: Prof. David Marker, Marker Consulting, LLC (USA) |
| Lunch Break (12:30-13:30) | | |
| 13:30-14:15 | Session 5: Combining data sources for modelling Internet connectivity | Speaker: Fredrik Otto Lennart Eriksson, ITU (Switzerland) |
| 14:15-15:00 | Session 6: UN Big Data Hub in Brazil | Speaker: Augusto Fadel, IBGE (Brazil) |
| Coffee Break | | |
| 15:20-16:50 | Keynote: Bias, Fairness and Accountability with Artificial Intelligence and Machine Learning Algorithms | Speaker: Prof. Vijay Nair, Wells Fargo & UMICH (USA) Moderator: Prof. Pedro Silva, ENCE/IBGE (Brazil) |

| TIME | DAY 3 | |
|---------------------------|---|--|
| 08:40-09:00 | Welcome coffee | |
| 09:00-10:30 | Short Course II: Methods for dealing with nonresponse | Speaker: Raphael Nishimura, UMICH (USA) |
| Coffee Break & Networking | | |
| 10:50-12:15 | Short Course II: Methods for dealing with nonresponse | Speaker: Raphael Nishimura, UMICH (USA) |
| Lunch Break (12:15-13:15) | | |
| 13:15-14:00 | Short Course II: Methods for dealing with nonresponse | Speaker: Raphael Nishimura, UMICH (USA) |
| 14:00-15:30 | Session 7: Introduction to Machine Learning | Speaker: Prof. Vijay Nair, Wells Fargo & UMICH (USA) |
| Coffee Break & Networking | | |
| 15:50-17:00 | Keynote: Combining probability and non-probability samples | Speaker (Remote): Jean-François Beaumont, Statistics Canada (Canada) |

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| TIME | DAY 4 | |
|---------------------------|---|---|
| 08:40-09:00 | Welcome coffee | |
| 09:00-10:30 | Short Course III: Learning from Qualitative Research | Speaker: Prof. Marlei Pozzebon, HEC Montreal (Canada) & FGV-EAESP (Brazil) |
| Coffee Break & Networking | | |
| 10:50-12:10 | Short Course III: Learning from Qualitative Research | Speaker: Prof. Marlei Pozzebon, HEC Montreal (Canada) & FGV-EAESP (Brazil) |
| Lunch Break (12:10-13:00) | | |
| 13:00-15:00 | A Global Media and Information Literacy Research Agenda: UNESCO transforming from research to policy and impact | Speaker (Remote): Alton Grizzle, UNESCO (France) |
| | AI-based SDG Observatory | Speaker: João Pita Costa, IRCAI (Slovenia) |
| | Basic Food Basket Price from Big Data | Speaker: Marcus Zimmermann, ENCE (Brazil) |
| | SDG indicator 11.7.1: calculation approaches using open data for Rio de Janeiro | Speaker: Isis Peixoto, ENCE (Brazil) |
| Coffee Break & Networking | | |
| 15:20-17:05 | C4AI/USP: AI Research Projects | Speaker: Fabio Cozman, USP/C4AI (Brazil) |
| | Innovative solutions for data production | Speaker: Carlos Torres Freire, SEADE Foundation (Brazil) Lucas Gelape, SEADE Foundation (Brazil) |
| | Text mining for economic activity classification | Speaker: Ana Gabriela Faria da Silva, IBGE (Brazil) |
| | AI-based Tool for Processes Classification According to the SDGs at the Brazilian Supreme Court | Speaker: Euler Rodrigues de Alencar, STF (Brazil) |
| 17:05-17:10 | Closing remarks | Prof. Pedro Silva ENCE/IBGE (Brazil) Alexandre Barbosa, Cetic.br/NIC.br (Brazil) |

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IV. VENUE AND DATES

Date/Time: August 29 to September 01 / 08:45am – 5:00pm (GMT-3)

Venue: Brazilian Network Information Center – NIC.br
Av. das Nações Unidas, 11.541 – 4th Floor
São Paulo, SP / Brazil

Number of participants: 60 (in-person) and 40 (remote participation).

Language: The workshop is conducted in English without simultaneous translation.

CONTACT

For questions, suggestions or clarifications please message the following email address:
semanademetodologias@nic.br

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