



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 (Remote): Esperanza Magpantay, 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	Media Information Literacy: Critical and ethical use of information	Speaker: Alton Grizzle, UNESCO (France)
	IRCAI: AI Research Projects	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 Eduardo Freire, 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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