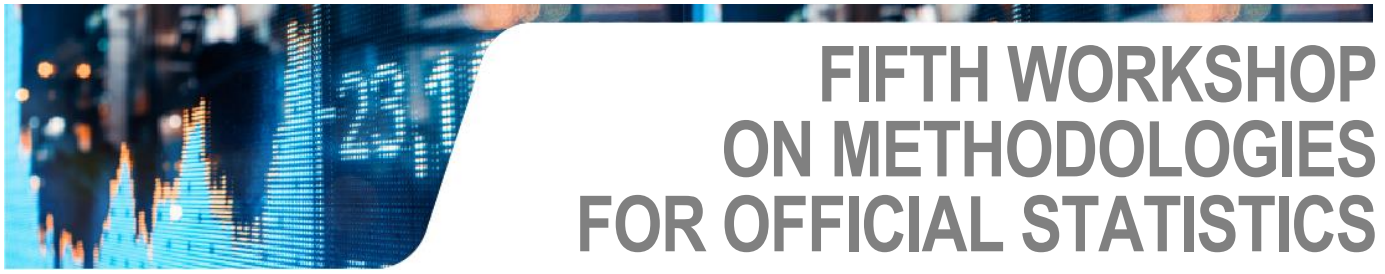
Istat | Italian National Institute of Statistics



# FIFTH WORKSHOP ON METHODOLOGIES FOR OFFICIAL STATISTICS

**10-11 DECEMBER 2026**
Istat | Aula Magna
Via Cesare Balbo, 14 – Rome, Italy

REGISTER FOR **IN PERSON EVENT**

REGISTER FOR **ONLINE EVENT**

## THURSDAY, 10 DECEMBER

### 8:30 am

**Participant Registration**

### 9:00 – 9:30 am

**Welcome and opening session**

**Francesco Maria Chelli** | President | Istat

**Massimo Fedeli** | Head of Department for development of methods and technologies for production and dissemination of statistical information | Istat

**Cristina Freguja** | Head of Department for social and demographic statistics | Istat

**Stefano Menghinello** | Head of Department for economic, environmental and national accounts statistics | Istat

## SESSION 1

## Integration of probability and non-probability sources in official statistics

### 9:30 – 11:00 am

#### Master Class

**Data integration without point identification: inference from nonprobability samples**
***by*** **P.L. Conti** | Sapienza Università di Roma, Italy

***Master Class Chair***
**P.D. Falorsi** | formerly at Istat

### 11:00 – 11:20 am *Coffee Break*

### 11:20 am – 12:50 pm

#### Invited Talks

**Aggregated-Level integration of probability and nonprobability data**
**T. De Waal** | CBS, the Netherlands

**Labour market experimental indicators based on OJA data: a validation approach**
**A. Lucarelli, M. Amarone, P. di Padova, F. Inglese** | Istat

**Machine learning for probabilistic record linkage**
**L. Tosco, T. Tuoto** | Istat
**A statistical calibration framework for subnational health surveillance from routine data and survey audits**
**A. Allorant** | University of Southampton, U.K.
**L.-C. Zhang** | University of Southampton, U.K. and Statistics Norway

***Invited Talks Chair***
**B. Liseo** | Sapienza Università di Roma
***Invited Talks Discussant***
**M.G. Ranalli** | University of Perugia

## 12:50 – 2:10 pm *Lunch*

## SESSION 2
## Statistical Modelling/Model-based estimation for official statistics

## 2:10 – 3:40 pm
### Master Class

**Weighting non-probability samples using parametric and machine learning methods**
***by*** **J.-F. Beaumont, C. Bocci and K. Bosa** | Statistics Canada, Ottawa, Canada

***Master Class Chair***
**D. Cocchi** | University of Bologna

## 3:40 – 4:00 pm *Coffee Break*

## 4:00 – 5:30 pm
### Invited Talks

**Small Area Estimation Methods for Labour Force Indicators: An Application to Labour Market Area**
**A. Fasulo, A. Martini** | Istat
**Small area estimation with non-probability survey samples: a doubly robust approach**
**F. Schirripa Spagnolo, N. Salvati, M. Pratesi, C. Giusti** | Università di Pisa
**A. D'Agostino** | Università di Siena
**Bayesian networks for complex survey data: a design-weighted scoring approach**
**P. Vicard, F. Musella** | Università Rome Tre
**D. Marella** | Sapienza Università di Roma
**Costly to survey merchants? Sampling and asking consumers — indirect sampling with incomplete ancestry**
**H. Chen** | Bank of Canada
**J. Wu** | University of Michigan, U.S.
**L.-C. Zhang** | University of Southampton, U.K. and Statistics Norway

***Invited Talks Chair***
**D. Cocchi** | University of Bologna
***Invited Talks Discussant***
**D. Haziza** | University of Ottawa, Canada

# FRIDAY, 11 DECEMBER

## SESSION 3
## AI/ML for official statistics

## 9:30 – 11:00 am

### Master Class

**Recent developments in AI/ML for production steps in (German) official statistics**
***by*** **F. Dumpert** | DESTATIS, Germany

***Master Class Chair***
**L.-C. Zhang** | University of Southampton, U.K. and Statistics Norway

## 11:00 – 11:20 am *Coffee Break*

## 11:20 am – 12:50 pm

### Invited Talks

**An experimental framework to assess the utility-privacy trade-off in models trained on synthetic data**
**M. De Cubellis, D. Papa, F.Spagnuolo** | Istat
**F. Ricciato** | Eurostat

**Measuring occupational exposure to artificial intelligence through patent based semantic matching**
**L. Shcharbak, B.D. Bernhardt, M. Guarracino** | Università di Cassino, Italy

**From models to production: methodology implementation and monitoring of machine learning processes in official statistics**
**S. Barragan** | INE Spain

**Minerva, the Italian public and open Large Language Model: from research to deployment in public administration**
**R. Navigli** | Sapienza Università di Roma

***Invited Talks Chair***

**N. Shlomo** | University of Manchester, U.K.

***Invited Talks Discussant***

**M. Alfò** | Sapienza Università di Roma

## 12:50 – 1:00 pm
## CLOSING SESSION

**O. Luzi** | Head of Directorate for Methodology and Statistical Process Design | Istat