



FOURTH WORKSHOP ON METHODOLOGIES FOR OFFICIAL STATISTICS

1-2 DECEMBER 2025

Istat | Aula Magna

Via Cesare Balbo, 14 – Rome, Italy

MONDAY, 1 DECEMBER

8:30 am

Participant Registration

9:00 – 9:30 am

Welcome and Opening Session

To be announced | Istat

SESSION 1

Statistical models for Official Statistics

*in collaboration with **International Association of Survey Statisticians (IASS)***

9:30 – 11:00 am

Master class

On Adversarial Risk Analysis in Official Statistics

by F. Ruggeri | Italian National Research Council (CNR), Milan, Italy

Master class Chair

N. Shlomo | Former President of IASS, University of Manchester, Istat Advisory Committee on statistical methods

11:00 – 11:20 am *Coffee Break*

11:20 am – 12:50 pm

Invited talks

Statistical Inference for a Finite Population Mean with Machine Learning-Based Imputation for Missing Survey Data

D. Haziza | University of Ottawa, Canada

M. Dagdouk | McGill University, Montreal, Canada

A Contamination Model for Multivariate Zero-Inflated Data

D. Di Cecco, D. Filipponi | Istat

U. Guarnera | Italian Revenue Agency, Rome, Italy

To be announced

N. Salvati, F. Schirripa Spagnolo | Università di Pisa, Italy

Invited talks Chair

N. Shlomo | Former President of IASS, University of Manchester, Istat Advisory Committee on statistical methods

Invited talks Discussant

To be announced

12:50 – 2:10 pm *Lunch*

SESSION 2

AI/ML for Official Statistics

2:10 – 3:40 pm

Master class

Predictive Inference of Machine Learning for Official Statistics

by Li-Chun Zhang | Statistics Norway and University of Southampton

3:40 – 4:00 pm *Coffee Break*

4:00 – 5:30 pm

Invited talks

Generative AI and Large Language Models in Official Statistics: from prototypes to practice

J. Engdahl | Statistics Sweden and University of Uppsala, Sweden

Language Models for Automated Coding in Official Statistics: risks and opportunities

M. Bruno, M. Di Zio, F. Ortame | Istat

Transfer Learning for Tourism Flash Estimates with Mobile Network Operator Data

T. Tuoto, A. Piovani, C. Faricelli | Istat

Invited talks Chair and Discussant

To be announced

TUESDAY, 2 DECEMBER

SESSION 3

Multisource analyses for Official Statistics

9:00 – 10:30 am

Master class

Generalized Calibration for non-response and non-probability Samples

by Alina Matei | University of Neuchatel, Switzerland

Master class Chair

To be announced

10:30 – 10:50 am *Coffee Break*

10:50 am – 12:20 pm

Invited talks

Innovations in the quality of EU-SILC Survey Estimates

D. Chianella, M. D'Alò, S. Gerosa, M. Terribili, C. De Vitiis | Istat

As changes on definition of population units reflect on SBS Surveys System

M. Ballin, A. Guandalini, M. Rinaldi | Istat

A constrained optimization approach for adjusting misclassified proxy variables

F. Solari, R. Filippini, V. Quondamstefano, S. Toti | Istat

Invited talks Chair and Discussant

To be announced

12:20 – 1:40 pm *Lunch*

SESSION 4

Software open source implementing statistical methods for Official Statistics

1:40 – 3:10 pm

Master class

Open-source software for the implementation of new statistical methods

by R. Lesur | INSEE, methodology, Head of data science lab, previously director on IT directorate

Master class Chair

To be announced

3:10 – 3:30 pm *Coffee Break*

3:30 – 5:00 pm

Invited talks

**ARTIC: An R procedure for the Automatic random error Treatment and Imputation
for categorical variables**

R. Filippini, S. Toti | Istat

Statistical Open Source Software for Official Statistics: State of Play and Future Directions

O. ten Bosch | CBS, the Netherlands

Methodological framework for developing open source software tools at Istat

M. D'Orazio | Istat

Invited talks Chair and Discussant

To be announced

5:00 – 5:10 pm

Closing session

O. Luzi | Head of Directorate for methodology and statistical process design | Istat