



NATIONAL
INSTITUTE
OF
STATISTICS



ECOLOGICAL
UNIVERSITY
OF
BUCHAREST



romania2019.eu

The 7th International Conference

The Use of R in Official Statistics

uRos2019

PROGRAMME

Bucharest, Romania

20-21 May 2019



SCIENTIFIC BOARD

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PROGRAMME

Conference Room and Blue Hall, *National Institute of Statistics*, Ground Floor

May 20, Monday

- 08³⁰ – 09³⁰** Registration of participants
- 09³⁰ – 10⁰⁰** **Welcome message**
Tudorel ANDREI, President of National Institute of Statistics, Romania
 Nicoleta CARAGEA, President of uRos, National Institute of Statistics/Ecological University of Bucharest, Romania
- 10⁰⁰ – 11⁰⁰** **Keynote Speaker 1:** Julie JOSSE, Member of RFoundation and Rforwards,
 Professor of Statistics at Ecole Polytechnique, France
Chairman – Mark VAN DER LOO, Statistics Netherlands (CBS)
Presentation - *A missing value tour in R*
- 11⁰⁰ – 11³⁰** Coffee break
- 11³⁰ – 13⁰⁰** **Parallel Tutorial Sessions (I)**
- Conference Room, Ground Floor**
 *Statistical data cleaning for official statistics with R*
 Mark VAN DER LOO and Edwin DE JONGE, Statistics Netherlands (CBS)
- Blue Hall, Ground Floor**
  *Use of R package SamplingStrata for the Optimal Stratification of Sampling Frames for Multipurpose Sampling Surveys*
Marco BALLIN and Giulio BARCAROLI, Italian National Institute of Statistics (Istat)
- 13⁰⁰ – 14⁰⁰** Lunch Break and Group Photo
- 14⁰⁰ – 15³⁰** **Parallel Tutorial Sessions (II)**
- Conference Room, Ground Floor**
  *Modern package development in R*
Alexander KOWARIK and Bernhard MEINDL, Statistics Austria
- Blue Hall, Ground Floor**
  *Mapping a Table of Data with Esri Shapefiles in R*
Mervyn Ó'LÚING, Central Statistics Office, Ireland
- 15³⁰ – 16⁰⁰** Coffee break
- 16⁰⁰ – 17³⁰** **Parallel Tutorial and Scientific Sessions**
- Conference Room, Ground Floor**
  *Integration of data sources in R through statistical matching*
Marcello D'ORAZIO - Food and Agriculture Organization of The United Nations

Blue Hall, Ground Floor

Scientific Session *Methods for Official Statistics (I)*

Chairman: Bogdan OANCEA, National Institute of Statistics, University of Bucharest, Romania



Implementation of the cell-key method based random noise approach in R

Tobias ENDERLE, DESTATIS, Germany



Bernhard MEINDL, Statistics Austria, Austria



Utility evaluation of global recoding by accuracy of discrimination model

Natsuki SANO, Statistical Research and Training Institute Ministry of Internal Affairs and Communication, Japan



*Headless Chrome Automation with the *crri* package*

Romain LESUR, Ministère de la Justice, France



From SPSS to R: designing a scalable R infrastructure to support health analytics in Scotland

Terry MCLAUGHLIN, NHS National Services Scotland, Scotland

17³⁰ – 17⁴⁰ Go to Conference Room for a Project Presentation

17⁴⁰ – 18⁰⁰ **Conference Room, Ground Floor**

Project Presentation

Chairman: Bernhard Meindl, Statistics Austria



COMUNIKOS: COMMunicating UNCertainty In Key Official Statistics

Dario BUONO, Eurostat/GOPA

Gian Luigi MAZZI, Eurostat/GOPA

Massimiliano MARCELLINI, Eurostat/GOPA

George KAPETANIOS, Eurostat/GOPA

James MITCHELL, Eurostat/GOPA

Tiziana LAURETI, Eurostat/GOPA

Edwin DE JONGE, Eurostat/GOPA


Florabela CARAUSU, Eurostat/GOPA

Ibtissam SAHIR, Eurostat/GOPA

19⁰⁰ Conference Dinner


May 21, Tuesday


8³⁰ – 9⁰⁰ Walk In


9⁰⁰ – 10⁰⁰ Keynote Speaker 2: Giulio BARCAROLI, Italian National Institute of Statistics (Istat), Italy

Chairman: Alexander KOWARIK, Statistics Austria
Presentation - *R at the Italian National Institute of Statistics (Istat): a twelve years story*

10⁰⁰ – 10³⁰ Coffee break


10³⁰ – 12³⁰ Conference Room, Ground Floor
Scientific Session *Data cleaning, Sampling and estimation*
Chairman: Mark van der Loo, Statistics Netherlands (CBS)


Just BEAT it. Bethel Extended Allocation for Two-stage sampling package

Stefano FALORSI, Istat, Italy
Andrea FASULO, Istat, Italy
Alessio GUANDALINI, Istat, Italy
Daniela PAGLIUCA, Istat, Italy
Marco D. TERRIBILI, Istat, Italy


A generic shiny/js dashboard for data validation results

Olav ten BOSCH, Statistics Netherlands, Netherlands
Mark van der LOO, Statistics Netherlands, Netherlands

Integration of Survey Data in R Based on Machine Learning

Mattia SPAZIANI, Istat, Italy
Doriana FRATTAROLA, Istat, Italy
Marcello D'ORAZIO, Istat, Italy

Selective editing with categorical variables
M. Rosario GONZÁLEZ-GARCÍA, S.G. for Sectorial Social Statistics, Statistics Spain (INE), Spain
Jara POCH, S.G. for Information and Communication Technologies, Statistics Spain (INE), Spain


David SALGADO, Dept. Methodology and Development of Statistical Production, Statistics Spain (INE), Spain
Teresa VÁZQUEZ-GUTIÉRREZ, S.G. for Information and Communication Technologies, Statistics Spain (INE), Spain

Trial of R training for technical supports to third countries

Kiyomi SHIRAKAWA, Hitotsubashi University, Japan
Ken NAKAMATSU, Takumi Information Technology, Japan

Data cleaning with R put into production

Aksel THOMSEN, Statistics Denmark, Denmark

10³⁰ – 12³⁰ Blue Hall, Ground Floor

Scientific Session *R in Production: Data analysis*

Chairman: Ana-Maria CIUHU, National Institute of Statistics, Romania



An R package for calculating repeat-sale price indices

Megan KIRBY-MCGREGOR, Producer Prices Division, Statistics Canada, Canada
Steve MARTIN, Producer Prices Division, Statistics Canada, Canada

The Ability Of Different Imputation Methods To Capture Complex Dependencies In High Dimensions



Humera RAZZAK, Institut für Statistik, Ludwig-Maximilians-Universität München, Germany

Christian HEUMANN, Institut für Statistik, Ludwig-Maximilians-Universität München, Germany



Detection of Business Cycle Turning Points in the Serbian Economic Activity

Isidora Jovandić, Statistical Office of the Republic of Serbia, Serbia
Petar Korović, Statistical Office of the Republic of Serbia, Serbia
Katarina Stančić, Statistical Office of the Republic of Serbia, Serbia

Religiosity and Economic Growth



Serban OLAH, University of Oradea, Romania
Gabriel ROSEANU, University of Oradea, Romania

A comparison between R, Julia and Python in building and prediction phases for high blood pressure in personalized medicine



Antonio CLIM, The Bucharest University of Economic Studies, Romania
Răzvan Daniel ZOTA, The Bucharest University of Economic Studies, Romania
Bogdan OANCEA, University of Bucharest, Romania

Remittances` impact on receiving country. Multidimensional analysis at macro and microeconomic level using R.



Valentina VASILE, Institute of National Economy, Romanian Academy
Elena BUNDUCHI, University of Medicine, Pharmacy, Sciences and Technology of Tirgu Mures, Romania
Stefan DANIEL, University of Medicine, Pharmacy, Sciences and Technology of Tirgu Mures, Romania
Calin-Adrian COMES, University of Medicine, Pharmacy, Sciences and Technology of Tirgu Mures, Romania

12³⁰ – 13³⁰ Lunch Break

13³⁰ – 15⁰⁰ Conference Room, Ground Floor

Scientific Session *Methods for Official Statistics (II)*

Chairman: Alexander KOWARIK, Statistics Austria

SMART: A web system for Small Area Estimation



Stefano FALORSI, Istat, Italy
Andrea FASULO, Istat, Italy
F SOLARI, Istat, Italy

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Multivariate imputation by chained equation with packages ‘mice’ and ‘mi’ to impute for missing values in semi-continuous data: methods to properly address non-response bias

Siân LLOYD, Office for National Statistics, United Kingdom



Generalization and robustification of a ratio model

Kazumi WADA, National Statistics Center, Japan
Keiichiro SAKASHITA, National Statistics Center, Japan
Hiroe TSUBAKI, National Statistics Center, Japan



Insights On Replicating Research Results In Remote Sensing Data Statistical Analysis Using R

Marian NECULA, The Bucharest University of Economic Studies, Romania
Mihaela PAUN, University of Bucharest, Faculty of Administration and Business, Romania

13³⁰ – 15⁰⁰

Blue Hall, Ground Floor

Scientific Session R in Production: Automation

Chairman: Edwin DE JONGE, Statistics Netherlands (CBS)



Rethinking Human Well-Being: A holistic Flourishing perspective
Josue ADUNA, 3S Studio, Romania



Improvement Of The Reliability Score For Autocoding And Its Implementation In R

Yukako TOKO, National Statistics Center, Japan
Shinya IIJIMA, National Statistics Center, Japan
Mika SATO-ILIC, Faculty of Engineering, Information and Systems, University, Japan



Web Scraping Notices Of Insolvency Proceedings - Using Publicly Available Data To Enhance Survey Response Quality

Joerg FEUERHAKE, DESTATIS, Germany



Use Of R To Increase The Automatic Coding Rate In Census2021. Statistics Portugal Challenge

Rui ALVES, Statistics Portugal, Portugal
Almiro MOREIRA, Statistics Portugal, Portugal

15⁰⁰ – 15³⁰ **Coffee Break**

15³⁰ – 17¹⁰ **Conference Room, Ground Floor**

Scientific Session Dissemination and visualizations

Chairman: Ciprian ALEXANDRU, National Institute of Statistics/Ecological University of Bucharest, Romania



R Tools for ILOSTAT: Rilostat and SMART

Mabelin VILLARRREAL-FUENTES, International Labour Organization (ILO), Colombia
Ding SHUTONG, International Labour Organization (ILO), Colombia



Semiautomatic Reports with R Markdown

Max GRÜTTER, Statistical Office of the Canton of Zurich, Switzerland

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rtempo - TEMPO Online data interface to R

Marian NECULA, The Bucharest University of Economic Studies, Romania
Ana Maria ȚÎRU, National Institute of Statistics, Romania
Bogdan OANCEA, University of Bucharest, Romania



Reproducible Corporate Publications using pagedown

Romain LESUR, Ministère de la Justice, France

15³⁰ – 17¹⁰ Blue Hall, Ground Floor

Scientific Session *Shiny apps and Big Data*

Chairman: Marcello D'ORAZIO - Food and Agriculture Organization of The United Nations

Using R and RShiny to produce official statistics on Psychiatric Inpatient Care in Scotland



Nikos ALEXANDROU, NHS National Services Scotland, Scotland
Ciara GRIBBEN, NHS National Services Scotland, Scotland



Google Analytics, Shiny apps and EU/UK law

Joseph Adams, National Records of Scotland, Scotland



Use of R in outliers detection

Audrius TARAILA, Statistics Lithuania, Lithuania

Utilization of big data for improving Consumption Trend Index - Estimation of the number of person per household based on the characteristic of purchase items-



Anri MUTOH, National Statistics Center, Japan
Masayo YAMASHITA, National Statistics Center, Japan
Yoshiyasu TAMURA, National Statistics Center, Japan
Masahiro MATSUMOTO, National Statistics Center, Japan



Real time monitoring and reporting surveys using Shiny App on Survey Solutions API with R

Michael WILD, World Bank, USA



Nicoleta CARAGEA, Ecological University of Bucharest/National Institute of Statistics, Romania

Ciprian ALEXANDRU, Ecological University of Bucharest/National Institute of Statistics, Romania

17¹⁰ – 17²⁰ Go to Conference Room for Closing remarks

17²⁰ – 17⁴⁵ Closing Remarks

Contact

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BRIEF AGENDA

May 20, Monday

08:30 - 09:30	Registration of participants
09:30 - 10:00	Welcome message
10:00 - 11:00	Keynote speaker 1
11:00 - 11:30	Coffee break
11:30 - 13:00	Parallel tutorial sessions I
13:00 - 14:00	Lunch break and Group photo
14:00 - 15:30	Parallel tutorial sessions II
15:30 - 16:00	Coffee break
16:00 - 17:30	Parallel Tutorial and Scientific Sessions
17:30 - 17:40	Go to Conference Room for a Project Presentation
17:40 - 18:00	Project Presentation
19:00	Official dinner

May 21, Tuesday

08:30 - 09:00	Walk in
09:00 - 10:00	Keynote speaker 2
10:00 - 10:30	Coffee break
10:30 - 12:30	Scientific session I (parallel sessions)
12:30 - 13:30	Lunch break
13:30 - 15:00	Scientific session II (parallel sessions)
15:00 - 15:30	Coffee break
15:30 - 17:10	Scientific session III (parallel sessions)
17:10 - 17:20	Go to Conference Room for Closing remarks
17:20 - 17:45	Closing remarks

**SATELLITE EVENT –
unconfUROS hackathon**

Conference Room of *National Institute of Statistics*, Blue Hall, Ground Floor

May 22, Wednesday

08:30 - 09:00	Welcoming participants
09:00	Opening, who is who?; Work starts.
12:00 - 13:00	Lunch break
19:30	End of day/Discussions

unConf implemented ideas will be promoted via conference website, GitHub and social media.

CONFERENCE VENUE

National Institute of Statistics, Bucharest, Romania
Address of National Institute of Statistics:
No.16 Libertatii Bvd., District 5, Bucharest, Romania



GPS: 44°25'47.5"N 26°05'37.0"E