



**ECOLOGICAL  
UNIVERSITY  
OF  
BUCHAREST**



**BUCHAREST  
UNIVERSITY OF  
ECONOMIC  
STUDIES**



**UNIVERSITI  
TEKNOLOGI  
MARA**



**THE  
UNIVERSITY  
OF  
BUCHAREST**



**NICOLAE  
TITULESCU  
UNIVERSITY  
OF  
BUCHAREST**



**THE WORLD OF  
STATISTICS**

## The 5<sup>th</sup> International Conference

### New Challenges for Statistical Software

### - The Use of R in Official Statistics –

### uRos2017

# PROGRAMME

Bucharest, Romania

6-7 November 2017



<http://www.r-project.ro/conference2017/>

### **SCIENTIFIC COMMITTEE**

- Tudorel ANDREI** – National Institute of Statistics and Bucharest University of Economic Studies, Bucharest, Romania  
**Matthias TEMPL** – Statistics Austria & Vienna University of Technology  
**Ralf MÜNNICH** – University of Trier, Germany  
**Risto LEHTONEN** – University of Helsinki, Finland  
**Gergely DARÓCZI** – Easystats Ltd, Budapest, Hungary  
**Valentina VASILE** – Romanian Academy – Institute of National Economy, Bucharest, Romania  
**Bogdan OANCEA** – University of Bucharest and National Institute of Statistics, Bucharest  
**Nicoleta CARAGEA** – National Institute of Statistics/Ecological University of Bucharest  
**Ciprian ALEXANDRU** – National Institute of Statistics/Ecological University of Bucharest  
**Adrian DUSA** – University of Bucharest, Romania  
**Elena DRUICA** – University of Bucharest, Romania  
**Nicolae-Marius JULA** – Nicolae Titulescu University, Bucharest, Romania  
**Ana Maria DOBRE** – National Institute of Statistics  
**Monica ROMAN** - Bucharest Academy of Economic Studies

### **ORGANIZING COMMITTEE**

- Tudorel ANDREI** - National Institute of Statistics and University of Economic Studies  
**Nicoleta CARAGEA** - National Institute of Statistics/Ecological University of Bucharest  
**Bogdan OANCEA** – University of Bucharest, Department of Economic and Administrative Sciences  
**Ciprian ALEXANDRU** - National Institute of Statistics/Ecological University of Bucharest  
**Adrian DUSA** - University of Bucharest, Department of Sociology  
**Elena DRUICA** - University of Bucharest, Department of Economic and Administrative Sciences  
**Marius Nicolae JULA** - “Nicolae Titulescu” University, Bucharest  
**Ana Maria DOBRE** - National Institute of Statistics, Bucharest

### **SECRETARIATE**

*Ana Maria DOBRE, National Institute of Statistics*

### **CONFERENCE VENUE**

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

## PROGRAMME

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

### November 6, Monday

12<sup>30</sup> – 13<sup>00</sup>

**Registration of participants**

13<sup>00</sup> – 13<sup>30</sup>

**Welcoming Address**



Tudorel ANDREI, President of National Institute of Statistics, Romania



Jean-Marc MUSEUX, Eurostat representative

**Open Session**



Nicoleta CARAGEA, President of Organizing Committee

**Keynote Speakers Address**



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



Adrian DUȘA, University of Bucharest, Department of Sociology and Social Work

13<sup>30</sup> – 15<sup>30</sup>

**Workshops Session (I)**



*Statistical data cleaning with R*



Mark van der Loo - Statistics Netherlands



*Current developments in R-packages sdcMicro and sdcTable for statistical disclosure control*



Bernhard Meindl - Statistics Austria

15<sup>30</sup> – 16<sup>00</sup>

**Coffee Break and Group Photo**

16<sup>00</sup> – 18<sup>00</sup>

**Workshops Session (II)**



*Outlier detection in R: some remarks*

Marcello D'Orazio - Food and Agriculture Organization of The United Nations



*R in the statistical office: the UNIDO experience*

Valentin Todorov - United Nations Industrial Development Organization (UNIDO)

19<sup>00</sup>

**Dinner**


**November 7, Tuesday**

**9<sup>00</sup> – 11<sup>00</sup> Conference Working Session (I)**  
*Chairman: Mark van der Loo, Statistics Netherlands*

1. *Towards a new architecture model for cooperation using shared algorithms*  
 Jean-Marc Museux  
EUROSTAT
2. *Using R in the Statistical Office: the experience of Statistics Netherlands and Statistics Austria*  
 Alexander Kowarik, Statistics Austria  
Mark van der Loo, Statistics Netherlands
3. *Methods library of embedded R functions at Statistics Norway*  
 Øyvind Langsrud  
Statistics Norway - Division for methods
4. *RDaf: A utility package for data editing*  
 Olav Grøndal  
Statistics Denmark
5. *Automation of publications using knitr*  
 Guido Schulz  
The Federal Statistical Office of Germany
6. *Determination of the optimal stratum boundaries in the monthly retail trade survey in the Croatian Bureau of Statistics*  
 Ivana Jurina  
Croatian Bureau of Statistics  
Lidija Gligorova  
Croatian Bureau of Statistics

**11<sup>00</sup> – 11<sup>15</sup> Coffee Break**

**11<sup>15</sup> – 13<sup>00</sup> Conference Working Session (II)**  
*Chairman: Alexander Kowarik, Statistics Austria*

1. *airqualitR: An R package on Air Quality - Information for Turkey*  
 Umit Isikdag  
Mimar Sinan University, Department of Informatics, Istanbul, Turkey  
Olgun Aydin  
Mimar Sinan University, Department of Statistics, Istanbul, Turkey

2. *Using a generalized beta of the second kind distribution to estimate gender wage discrimination*



Mihaela-Catalina Anastasiade

Alina Matei

Yves Tillé

Department of Statistics, University of Neuchâtel, Switzerland

3. *Identify Relative importance of covariates in Bayesian lasso quantile regression via new algorithm in statistical program R*



Fadel Hamid Hadi Alhuseini

Department of Statistics and Informatics, University of Craiova, Romania

Taha al Shaybawee

Faculty of Economics and Business Administration, Al-Qadiseya University, Iraq

Fedaa Abd Almajid Sabbar Alaraje

Department of accounting, University of Craiova, Romania

4. *A supervised multiclass classifier for autocoding system*



Yukako Toko

National Statistics Center, Research and Development Division, Japan

5. *Constructing sampling frames using Hidiroglou algorithm with R*



Melinda Tokai

Statistical Office of the Republic of Serbia

Jelena Suzic

Statistical Office of the Republic of Serbia

6. *Disclosure Control for Tabular Data in R*



Kazuhiro Minami

Institute of Statistical Mathematics/National Statistics Center, Japan

Yutaka Abe

National Statistics Center, Japan

**13<sup>00</sup> – 14<sup>00</sup> Lunch**

**14<sup>00</sup> – 15<sup>45</sup> Workshops Session (III)**



*Survey sampling techniques with R*

Camelia GOGA - Institut de Mathématiques de Bourgogne, Université de Bourgogne, France



*Fast robust center estimation, clustering and Principal Components Analysis with large samples in high dimension with R*


Hervé Cardot - Institut de Mathématiques de Bourgogne, Université de Bourgogne, France

**14<sup>00</sup> – 15<sup>45</sup> Conference Working Session (III) – parallel section (room to be announced)**  
*Chairman: Ciprian Alexandru - National Institute of Statistics/Ecological University of Bucharest, Romania*

-  1. *R programming for the Quarterly National Accounts: Moroccan case*  
Houssam Hachimi  
High Commission for Planning–National Account Department, Morocco
-  2. *Small Area Estimation Methodology on Bogotá Multipurpose Survey*  
José F. Zea, National Planning Department/Statistics Department of Santo Tomás University, Colombia  
Andrés F. Ortiz, Santo Tomás University, Colombia
-  3. *R projects challenges and FinTech practical solutions*  
Bogdan Octavian Pascu  
Constantin Tudor Urseiu
-  4. *Ethnic, Linguistic and Religious Diversity Analysis in Romania through R and GIS interoperability*  
Claudiu Vințe, Marian Dârdală, Titus Felix Furtună  
Bucharest University of Economic Studies
-  5. *A quantitative look at the potential affinity between self-control and financial behavior*  
Rodica Ianole-Călin, Mihaela Cornelia Sandu  
University of Bucharest
-  6. *Application of profit-based credit scoring models using R*  
Selçuk Bayracı  
R&D Centre, C/S Information Technologies,  
Istanbul, TURKEY
-  7. *Correspondence Analysis in R to Support Study of Comparative Migration Intentions among Balkan's Youth*  
Claudiu Vințe, Monica Roman  
Bucharest University of Economic Studies

**15<sup>45</sup> – 16<sup>00</sup> Coffee Break**

**16<sup>00</sup> – 17<sup>30</sup> Workshops Session (IV)**

-  *From unstructured data to structured data - Web scraping for Official Statistics*  
Bogdan Oancea - National Institute of Statistics/University of Bucharest, Romania  
Ciprian Alexandru - National Institute of Statistics/Ecological University of Bucharest, Romania



*Working with the 'pglm' package in R. Explaining the number of nosocomial infections in Romanian hospitals*

Elena Druică - University of Bucharest, Department of Economic and Administrative Sciences, Romania

16<sup>00</sup> – 17<sup>30</sup>

**Conference Working Session (IV) – parallel section (room to be announced)**

*Chairman: Adrian DUȘA, University of Bucharest*

1. *Modelling the potential human capital on the labor market using logistic regression in R*



Ana Maria Dobre

Institute of National Economy, Romanian Academy/ National Institute of Statistics, Romania

Nicoleta Caragea

National Institute of Statistics/Ecological University of Bucharest, Romania

2. *An R GPU implementation of the GMRES method*



Richard Pospisil

Palacky University of Olomouc, Czech Republic



Bogdan Oancea

National Institute of Statistics/University of Bucharest, Romania

3. *Visualisation of differences in net income in Romania using R*



Diana Ioana Popa

National Institute of Statistics, Romania

4. *Structural Equation Modeling - An exploratory analysis using R*



Roxana Adam

National Institute of Statistics, Romania

Mihaela Cornelia Sandu

University of Bucharest and National Institute of Statistics

5. *Foreign trade impact on employment efficiency – an analysis using R*



Valentina Vasile

Institute of National Economy-Romanian Academy, Bucharest, Romania

Elena Bănică

National Institute of Statistics, Romania

6. *Gender Differences in Romanian Rural Migration, 2007-2017*



Serban Zodian

Faculty of Agrifood and Environmental Economics-Bucharest University of Economic Studies

7. *rTempo – an R package to access the Tempo online database*



Ana-Maria Țîru, National Institute of Statistics

Iulia Toma, The Bucharest University of Economic Studies

Marian Necula, National Institute of Statistics

8. *R – One of the most powerful analysis tools to improve statistical data using administrative data sources*



Ciprian Alexandru

National Institute of Statistics/Ecological University of Bucharest, Romania

Nicoleta Caragea

National Institute of Statistics/Ecological University of Bucharest, Romania

**Discussions and closing conference**

*Contact*

Address of National Institute of Statistics:

No.16 Libertatii Bvd., District 5, Bucharest, Romania

Telephone center: +4021 3181824; +4021 3181842

Fax: +4021 3124875; +4021 3181851; +4021 3181873

e-mail: nicoleta.caragea [at] insse.ro



**consortium**

Supporting the R Language and its Community