



**NATIONAL
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OF
STATISTICS**



**ECOLOGICAL
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**THE WORLD OF
STATISTICS**

The 5th 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 CIUHU - National Institute of Statistics, Bucharest

SECRETARIATE

Ana Maria CIUHU, 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

12³⁰ – 13⁰⁰

Registration of participants

13⁰⁰ – 13³⁰

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



Bogdan OANCEA, National Institute of Statistics/ University of Bucharest, Romania



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

13³⁰ – 15³⁰ **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

15³⁰ – 16⁰⁰ **Coffee Break and Group Photo**

16⁰⁰ – 18⁰⁰ **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)

19⁰⁰

Dinner

November 7, Tuesday

9⁰⁰ – 9¹⁵ **Video-Conference, UROS2017 - ASIA PACIFIC, Universiti Teknologi MARA
Kedah, Malaysia, www.icmskdh.net**

Welcoming Address

Abd Razak Ahmad, Malaysia
Matthias Templ, Keynote Speaker, Austria
Kamarul Ariffin Mansor, Malaysia

9¹⁵ – 11⁰⁰ **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. *Automation of publications using knitr*



Guido Schulz
The Federal Statistical Office of Germany

5. *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

11⁰⁰ – 11¹⁵ **Coffee Break**

11¹⁵ – 13⁰⁰ Conference Working Session (II)

Chairman: Alexander Kowarik, Statistics Austria

1. *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

2. *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

3. *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

4. *A supervised Multiclass Classifier for an Autocoding System*



Yukako Toko

National Statistics Center, Research and Development Division, Japan

Kazumi Wada

National Statistics Center, Research and Development Division, Japan

Mariko Kawano

National Statistics Center, Research and Development Division, Japan

5. *Disclosure Control for Tabular Data in R*



Kazuhiro Minami

Institute of Statistical Mathematics/National Statistics Center, Japan

Yutaka Abe, National Statistics Center, Japan

13⁰⁰ – 14⁰⁰ Lunch

14⁰⁰ – 15⁴⁵ 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

14⁰⁰ – 15⁴⁵ Conference Working Session (III) – parallel section (Protocol Room 1st floor)
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. *The use of R in the implementation of indirect estimation of monthly unemployment rate (MUR)*
Grzegorz Grygiel, Statistical Office Centre for Small Area Statistics
Poznań, Poland
-  4. *Sample allocation in Business Surveys*
Tomas Rudys, Statistics Lithuania
-  5. *Application of profit-based credit scoring models using R*
Selçuk Bayracı
R&D Centre, C/S Information Technologies,
Istanbul, TURKEY
-  6. *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
-  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

15⁴⁵ – 16⁰⁰ Coffee Break

16⁰⁰ – 17³⁰ 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

16⁰⁰ – 17³⁰

Conference Working Session (IV) – parallel section (Protocol Room 1st floor)

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

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



Ana Maria Ciuhu, Institute of National Economy, Romanian Academy/ National Institute of Statistics, Romania

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

Ciprian Alexandru, Ecological University of Bucharest/National Institute of Statistics, 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. *Foreign trade impact on employment efficiency – an analysis using R*



Elena Bănică

National Institute of Statistics, Romania

Valentina Vasile

Institute of National Economy-Romanian Academy, Bucharest, Romania

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



Serban Zodian

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

5. *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

Discussions and closing conference

Attendance list (without papers or presentations)

-  Joachim Schork, STATEC - Institut national de la Statistique et des Etudes Economiques-Conditions de vie, Luxembourg
-  Silvia PISICĂ
National Institute of Statistics, Romania
-  Joël Bissonnette
Statistics Canada
-  Florentina-Viorica GHEORGHE
National Institute of Statistics, Romania
-  Kerstin LANGE
Federal Statistical Office of Germany
-  Maria-Laura (Jianu) DĂNILĂ
National Institute of Statistics, Romania
-  Elisa ESTEBAN SEGURADO, Instituto Nacional de Estadística, Departamento de Metodología y Desarrollo de la Producción Estadística, Spain
-  Ionela-Roxana GLĂVAN
National Institute of Statistics, Romania
-  Cornelia BARTI
National Institute of Statistics, Romania
-  Artur-Emilian SIMION
National Institute of Statistics, Romania
-  Diana-Ioana POPA
National Institute of Statistics, Romania
-  Simona TOMA
National Institute of Statistics, Romania
-  Rodica IOAN
Spiru Haret University, Romania
-  Cristina SIMION
National Institute of Statistics, Romania

Contact

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BRIEF AGENDA

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

November 6, Monday

| | |
|---------------|------------------------------------|
| 12:30 - 13:00 | Registration of participants |
| 13:00 - 13:30 | Welcoming Address and Open Session |
| 13:30 - 15:30 | Workshops Session I |
| 15:30 - 16:00 | Coffee Break & Group Photo |
| 16:00 - 18:00 | Workshops Session II |
| 19:00 | Conference Dinner |

November 7, Tuesday

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|---------------|--|
| 09:00 - 11:00 | Working Session I |
| 11:00 - 11:15 | Coffee Break |
| 11:15 - 13:00 | Working Session II |
| 13:00 - 14:00 | Lunch |
| 14:00 - 15:45 | Working Session III (paralell section) |
| 14:00 - 15:45 | Workshops Session III |
| 15:45 - 16:00 | Coffee Break |
| 16:00 - 17:30 | Working Session IV (paralell section) |
| 16:00 - 17:30 | Workshops Session IV |
| 17:30 | Closing 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