



The Bucharest University of Economic Studies
Department of Statistics and Econometrics
The Romanian Society of Statistics
The Applied Statistics and Econometrics Group
The Statisticians' Club
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ICAS 2019

The 13th International Conference on Applied Statistics

Friday, June 7th, 2019
Bucharest



SOCIETATEA ROMÂNĂ DE STATISTICĂ



Asigurări



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VOINEAGU Vergil, Department of Statistics & Econometrics, BUES

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ICAS 2019 Conference Keynote Speakers



Dr. [Milena Nikolova](#) received a Ph.D. in Public Policy (International Development) at the University of Maryland and a M.A. in Public Policy from The American University, Washington. She graduated with summa cum laudae the Gettysburg College (Gettysburg, PA).

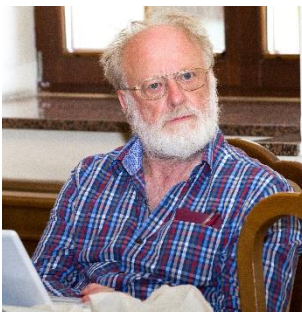
She is an Assistant Professor and a Rosalind Franklin Fellow at the University of Groningen, Faculty of Economics and Business, Global Economics & Management, where she also coordinates the MSc Double Degree with Corvinus University, being a member of the Young Academy Groningen. In addition, she serves as an Associate Editor (Economics) for the Journal of Happiness

Studies and the International Review of Economics.

Dr. Nikolova is a Research Fellow at the Institute of Labor Economics (IZA) in Bonn, Germany and also a Nonresident Fellow at the Brookings Institution and a Fellow at GLO.

Her research focuses on the well-being causes and consequences of development, labor market arrangements, migration, and institutions, being a reputed expert in the field and a consultant for international organizations.

[Emese Lazar](#) received a PhD in Finance from the ICMA Centre, The [University of Reading](#) in 2006. Previously she obtained an MSc in Financial Engineering and Quantitative Analysis with a distinction from the ICMA Centre. She graduated from the Academy of Economic Studies in Bucharest, with a BSc in Finance and Banking. Also, she holds a BSc in Computer Science obtained from the University of Bucharest, Faculty of Mathematics. Her research interests include: risk measurement and management, model risk, volatility and correlation models and their applications in pricing structured products. Emese presently teaches Market Risk and Derivatives Modelling.



[Marcel Ausloos](#) (born in 1943) is a Belgian graduate engineer of the University of Liege in 1967. After graduation he focused on the theoretical study of materials and condensed matter; he obtained a MSc at Brown University in 1970. He then went to physical statistics to get a PhD from Temple University in 1973. It subsequently began to apply statistical methods and ideas from physics to various academic domains such as: biophysics, Finance and Econophysics, meteorology, linguistic, socio-physical and other complex systems. In parallel, his investigation of condensed matter (liquids, alloys, magnets, ceramics or super conductors) continued. Since November 2014 he holds a part-time Professor position at the School of Business at the University of Leicester, United Kingdom.



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Overview of the Conference Agenda

Conference venue: **The Bucharest University of Economic Studies**
The Virgil Madgearu Building 15-17 Calea Dorobantilor, and the poet Macedonski, Sector 1

Friday, 7th of June

9:00 – 9:30	Room 2102 Participants' Registration			
Plenary Session <u>Room 2102</u>				
9:30 – 10:30	Opening Ceremony			
10:30 – 12:30	Keynotes			
12:30 – 13:30	Lunch			
Parallel sessions	<u>Room 2013</u>	<u>Room 2413</u>	<u>Room 2102</u>	
13:30 – 15:30	Session 1	Session 2	Session 5.1	
15:30 – 16:00	Coffee Break			
16:00 – 18:00	Session 3	Session 4	Session 5.2	
19:00	Gala Dinner - MARSHAL GARDEN (50 B, Dorobantilor Boulevard, District 1, 010574, Bucharest)			



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Friday 7th of June

Conference venue: **The Bucharest University of Economic Studies**
The Virgil Madgearu Building 15-17 Calea Dorobantilor

9:00 - 9:30

Participants registration

9:30 - 9:45

Opening Ceremony and Plenary Session:

*Moderators: Liviu-Stelian BEGU, Monica-Mihaela ROMAN, Daniel-Traian PELE,
Claudiu HERȚELIU*

Welcome speeches

9:45 - 10:30

Liviu Stelian BEGU, Director of the Statistics and Econometrics Department
Nicolae ISTUDOR, Rector of the Bucharest University of Economic Studies
Marian DÂRDALĂ, Dean of Faculty of Cybernetics, Statistics and Informatics
Tudorel ANDREI, President of National Institute of Statistics

Keynotes

10:30 - 12:30

Prof. PhD Milena Nikolova

Prof PhD Emese Lazar

Prof PhD Marcel Ausloos

12:30 – 13:30

Lunch



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Friday 7th of June

13:30 – 15:30

Parallel session 1

Economic Development

Chairs: Claudiu HERȚELIU, Marcel AUSLOOS,
Andreea MIRICĂ

Room 2013
Ground floor

Characterizing the level of economic development of countries

Alexandra NASTU, Stelian STANCU, Andreea DUMITRACHE

The Importance of FDI on Stimulating Entrepreneurship – A Regional Study for Romania

Horia ȚIGĂU

Comparative analysis of the economic growth determinants in Romania and Central and Eastern European countries

Cristina CĂUȚIȘANU, Mariana HATMANU

Corruption perceptions index and economic development of the country

Liviu-Stelian BEGU, Simona-Andreea APOSTU, Andreea-Oana ENACHE

Causal relationship between poverty, economic growth and financial development: a frequency domain analysis

Hicham AYAD, Mostefa BELMOKADDEM, Salah Eddine SARI HASSOUN

Modelling monthly GDP on the supply side. A case study on Romania

Alina Mirela BĂLTĂȚEANU, Vergil VOINEAGU

Financial cycle. How does it look like in Romania?

Luminița TATARICI

Statistical analysis of investments in transport infrastructure, passenger numbers, and energy consumption by modes of transport in Romania

Alexandru-Eugen STĂTESCU

Is conventionally calculated anchor-based minimum clinically important difference value catches the real clinical increment? Determining the situations that make the answer "no" by a simulation study

Selcen YUKSEL, Pervin DEMIR, Afra ALKAN



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Friday 7th of June

13:30 – 15:30

Parallel session 2

Socio - Economics

Room 2413
4th Floor

Chairs: Constanța MIHĂESCU, Maria Denisa VASILESCU,
Raluca Dana CĂPLESCU

What is the quality of life in Romania compared to other EU countries?

Cristina Rodica BOBOC, Simona Ioana GHIȚĂ, Adelina-Ioana POPESCU, Andreea Simona SĂSEANU

Interdependence between international migration and evolution of development gaps

Angelica BĂCESCU-CĂRBUNARU

The economic impact of migration in the era of Globalization

Diana Valentina LUPOIU, Cristi RĂCEANU

The Factors of Migration in Europe

Andreea-Oana ENACHE, Adriana AnaMaria DAVIDESCU

Physicians know about biostatistics better than they think in Saudi Arabia

Hella Othman ALOTHMAN, Mazen FERWANA

Statistical analysis of living conditions and quality of life in Romania

Mihaela CAZACU, Emilia ȚIȚAN

Recent migration trends among Romanian youth

Authors: Monica Mihaela ROMAN, Alexandru FLOREA

How do Romanian Youths Fare in Their Journey from School to Work?

Adrian OȚOIU, Emilia ȚIȚAN

Assessment of environmental impact on health

Emilia ȚIȚAN, Mihaela MIHAI, Daniela-Ioana MANEA, Dorel-Mihai PARASCHIV

Romanians' perception of Healthcare System Issues

Constanța MIHĂESCU, Ileana NICULESCU-ARON, Miruna MAZURENCU PELE,
Alina PROFIROIU



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Friday 7th of June

13:30 – 15:30

Parallel session 5.1

Statistical Methods in Finance

Chairs: Daniel Traian PELE, Emese LAZAR,
Adrian OȚOIU

Room 2102
1st Floor

On modelling the occurrence of a particular event in non-life insurance

Mihaela COVRIG, Iulian MIRCEA, Adrian OȚOIU

Chain claims reserving methods in non-life insurance

Aurora Elena DINA (MANOLACHE)

Exchangeable models of financial correlations matrices. Bayesian nonparametric models and network derived measures of financial assets

Sorin OPINCARIU, Ștefan IONESCU

Modelling Expected Shortfall with Tail Entropy

Daniel Traian PELE, Emese LAZAR, Miruna MAZURENCU-MARINESCU-PELE

Phenotypic convergence of cryptocurrencies

Daniel Traian PELE, Niels WESSELHÖFFT, Wolfgang Karl HÄRDLE

15:30 – 16:30

Coffee Break



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Friday 7th of June

16:00 – 18:00

Parallel session 3

Statistical Methods in Business

Room 2013
Ground floor

Chairs: Miruna MAZURENCU MARINESCU PELE, Cristina
Rodica BOBOC, Simona Andreea APOSTU

**Big 4 firms and audit fees in the context of International Financial Reporting
Standards adoption**

Marta TACHE

Media Channels impact in brand indicators in Romania

Cristina BURLĂCIOIU, Cristina Rodica BOBOC, Constantin MITRUȚ, Ioan SIMU

**Possibilities of statistical analysis of hotel activity performance in a competitive
environment**

Simona Ioana GHIȚĂ, Rodica Manuela GOGONEA, Andreea Simona SĂSEANU

Seasonal adjustment of tourism data for Romania using JDemetra+

Tudorel ANDREI, Andreea MIRICĂ, Ionela-Roxana GLĂVAN, Georgiana Andreea
FERARIU, Ioan Mincu RĂDULESCU-GEORGE

Relationship between VAT revenue and intermediate consumption - a VAR approach

Victor OGNERU, Oana Mădălina POPESCU, Stelian STANCU

**Analysis of the Consumer Knowledge and Attitude toward Innovations in the Fashion
Industry**

Andreea-Ionela PUIU

Exploring the role of new SMEs and of the entrepreneurs' profile in Romania

Irina DRĂGAN, Alexandru ISAIC-MANIU

**The Factors that Influence Postpaid Subscribers to Make Churn in a Romanian
Telecommunication Company**

Andreea DUMITRACHE, Stelian STANCU, Monica Mihaela MATEI MAER,
Oana POPESCU



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Friday 7th of June

16:00 – 18:00

Parallel session 4

Room 2413
4th Floor

Statistics Applied in Population Economics

Chairs: Zizi GOSCHIN, Monica Mihaela ROMAN,
Elena-Maria PRADA

Post-Crisis Household Savings Behavior in Romania

Dan-Gabriel ANGHEL Adina-Ionela STRĂCHINARU

Should Students Trust their Instructors in Statistics? Differences in PLS Path Modeling while using WarpPLS and R

Elena DRUICĂ, Zizi GOSCHIN

Regional disparities in the public health care system: Evidence from Romania

Erika MARIN, Silvia Elena CRISTACHE, Daniela ȘERBAN

The impact of human capital on economic growth in EU-28: a Panel Data perspective

Elena-Maria PRADA, Smaranda CIMPOERU

Smoking as a bad habit: a behavioral economics perspective

Mădălina ȘTEFĂNEȚ, Simona GRĂDINARU, Alexandru COȘER, Stelian STANCU

Strategies and perspectives referred to the analysis and development of the preuniversity education system from Romania

Lavinia-Ștefania ȚOȚAN, Corina FRĂSINEANU

Analysis of the perception about the gender pay gap in the EU Member States

Maria Denisa VASILESCU, Gina Cristina DIMIAN, Amalia CRISTESCU

Employee attrition analysis

Miruna ILIE, Raluca Dana CĂPLESCU, Vasile Alecsandru STRAT

Some Considerations Regarding the Position of Romania in the European Tourist Movement

Mirela DIACONESCU, Maria-Floriana POPESCU, Claudia-Elena ȚUCLEA



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Parallel session 5.2

Statistical Methods in Economics

Chairs: Adrian COSTEA, Mihaela COVRIG,
Mihaela MIHAI

Room 2102
1st Floor

The use of statistical data within scientific research

Claudiu HERȚELIU, Alexandru ISAIC-MANIU

Discriminant analysis for defining quality of life patients with comorbid pathology of osteoarthritis

Tatyana STROGONOVA, Maria BONDAR, Suren VARZHAPETIAN

A Spatial Econometric Analysis Of Health In Romania Augmented With Computer Vision

Florin-Ionuț JURCHIȘ

Which of the favorite optimal cut-off determination methods is preferable for the ordinal response data? A simulation study

Afra ALKAN, Selcen YUKSEL, Pervin DEMIR

Efficiency of SVM classifier with Word2Vec and Doc2Vec models

Maria-Mihaela TRUȘCĂ

Are Teaching and Research activities mutually exclusive? A Data Mining study on European Universities

Simona GRĂDINARU, Anamaria ALDEA, Levida BEȘIR, Crișan ALBU

On building early-warning systems for preventing the deterioration of financial institutions' performance

Adrian COSTEA

Possibilities to quantify the road traffic on the national road network and motorways in Romania

Robert-Adrian SANDU, Carmen RĂCĂNEL, Daniela-Ioana MANEA, Mihaela MIHAI



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