

# Conference program

The 15<sup>th</sup>  
International Conference  
on  
Applied Statistics  
**ICAS 2022**





## Overview of the Conference Programme

Conference venue: "Ion Gh. Roşca" Training Center, Predeal, Romania

### Day 1 – Friday, 11<sup>th</sup> of November

9:00 – 9:30	<b>Room AMPHITEATRE</b> Registration		
<b>Plenary Session</b>	<b>Room AMPHITEATRE</b>		
9:30 – 9:45	<b>Opening session</b> Prof. Erika MARIN, director DSE, Prof. Claudiu HERȚELIU, vice dean CSIE		
9:45 – 10:30	<b>Keynote lecture</b> <b>Gagan DEEP SHARMA</b> Associate Professor of Finance at Guru Gobind Singh Indraprastha University, New Delhi, India		
10:30 – 11:00	<b>Coffee Break</b>		
11:00 – 11:45	<b>Keynote lecture</b> <b>Daniel BALSALOBRE-LORENTE</b> Associate Professor at University of Castilla-La Mancha, SPAIN		
11:45 – 12:30	<b>Keynote lecture</b> <b>Bogdan OANCEA</b> Director, Romanian National Institute of Statistics Professor at the University of Bucharest		
12:30 – 13:30	<b>Lunch</b>		
<b>Parallel sessions</b>	<b>Room</b> <b>AMPHITEATRE</b>	<b>Room</b> <b>SEMINAR 4, 1<sup>ST</sup> FLOOR</b>	<b>Room</b> <b>SEMINAR 5 1<sup>ST</sup> FLOOR</b>
13:30 – 15:00	<b>Session 1</b> <i>Statistical Applications in the Energy Sector</i>	<b>Session 2</b> <i>Data mining</i>	<b>Session 3</b> <i>Human Capital and Demography</i>
15:00 – 15:30	<b>Coffee Break</b>		
15.30 – 17:00	<b>Session 4</b> <i>Statistical Modelling in Macroeconomics and Finance</i>	<b>Session 5</b> <i>Algorithms and Artificial Intelligence in Digital Age</i>	
19:00	<b>Conference Dinner</b>		



**Day 2 – Saturday, 12<sup>th</sup> of November**

**Room AMPHITEATRE**

9:30 – 10:30      **Seminar: Publishing in good economics journals**  
Presented by **Daniel BALSALOBRE-LORENTE**

10:30 – 11:00      **Coffee Break**

11:00 – 12:20      **Round table: Challenges in teaching Statistics**

- ING Presentation – **Mihaela CAZACU SUPEALĂ**

Moderator: Erika MARIN

12:20 – 12:30      **Closing ICAS 2022**

12:30 – 13:30      **Lunch**



Friday, 11<sup>th</sup> of November  
Plenary session

ICAS 2022

9:00 – 9:30 **Ground floor**  
Registration

**Plenary Session** **Room AMPHITRE**

9:30 – 9:45 **Opening session**

Prof. Erika MARIN, director DSE,  
Prof. Claudiu HERȚELIU, vice dean CSIE

9:45 – 10:30

**Keynote lecture**

***Analyzing Cyberchondriac Google Trends Data to Forecast Waves and Avoid Friction***

**Gagan DEEP SHARMA**

Associate Professor of Finance at Guru Gobind Singh  
Indraprastha University, New Delhi, India

10:30 – 11:00

**Coffee Break**

**Keynote lecture**

***The economic complexity in the face of new global economic challenges***

11:00 – 11:45

**Daniel BALSALOBRE-LORENTE**

Associate Professor at University of Castilla-La Mancha, SPAIN

11:45 – 12:30

**Keynote lecture**

***Simulations in official statistics. A Mobile Network Data simulator***

**Bogdan OANCEA**

Director, Romanian National Institute of Statistics  
Professor at the University of Bucharest

12:30 – 13:30

**Lunch**



## Full Programme of the Parallel sessions

Friday, 11<sup>th</sup> of November

ICAS 2022

13:30 – 15:00

### Parallel session 1

#### *Statistical Applications in the Energy Sector*

Chairs: Viorica CHIRILĂ (Univ. A.I.Cuza, Iași)

Erika MARIN (BUES)

Room

AMPHITEATRE

#### **Achieving renewable energy transition through economic prosperity and financial development: A study for OECD countries**

Laeq Razzak JANJUA, Mirela PANAIT, Simona-Andreea APOSTU, Iza GIGAURI

#### **Examining the long-term relationship between renewable energy and economic growth in a management perspective: A research on Central and Eastern EU countries**

Bulent AKKAYA, Maria-Denisa VASILESCU, Ece CEVIK OZCAN, Larisa STANILA

#### **Dynamic connectedness analysis among crude oil price changes and polish stock market sectors**

Viorica CHIRILĂ, Ciprian CHIRILĂ

#### **Energy and circular economy. European perspective of municipal waste**

Simona-Andreea APOSTU, Valentina VASILE, Mirela PANAIT, Irina RĂDULESCU

#### **Waste management. The trigger of circular economy**

Alin-Cristian MARICUT, Giani Ionel GRĂDINARU, Florin Bogdan MATEI

#### **The analysis of success factors in the field of Logistics in the opinion of young entrepreneurs and potential entrepreneurs**

Silvia Elena CRISTACHE, Erika MARIN, Daniela ȘERBAN

#### **Agenda 2030 and the share of energy produced from renewable sources in the final energy consumption on the way to achieving the Sustainable Development Goals (online)**

Diana JOIȚA, Carmen-Elena DOBROTĂ, Adrian NEACȘA

#### **An inquiry on global warming. The case of Europe (online)**

Miruna PRUNĂ, Mihaela COVRIG, Adrian OȚOIU



Friday, 11<sup>th</sup> of November

ICAS 2022

13:30 – 15:00

**Parallel session 2**

**Data mining**

**Chairs: Claudiu HERȚELIU (BUES)**

**Marian Pompiliu CRISTESCU (Univ. L. Blaga, Sibiu)**

**Room  
SEMINAR 4,  
1<sup>ST</sup> FLOOR**

**Gambling Industry under Benford's Law Approach on Financial Statements**

Ionel JIANU, Alexandru ISAIC-MANIU, Claudiu BRANDAS, Marian POMPILIU, Cristescu, Corneliu BENTE, Claudiu HERȚELIU

**Using data mining in the sentiment analysis process**

Marian Pompiliu CRISTESCU, Raluca Andreea NERIȘANU, Dumitru Alexandru MARA

**Assessing the level of fiscal multipliers during the phases of the business cycle**

Robert-Adrian GRECU

**A machine learning approach to identify the feature importance for admission in the national military high schools**

Dimitrie-Daniel PLĂCINTĂ

**Analysing Romanian Energy Market using Random Forest Techniques (*online*)**

Andreea-Gabriela CAPBUN, Ioana MANAFI, Monica ROMAN

**Cereal trade patterns amid the Russo-Ukrainian conflict (*online*)**

Irina-Maria TRUCMEL, Alexandra VINTILA

**How the regularization techniques are improving classification models – Ridge Regression and Lasso Regression (*online*)**

Laura-Stefania CONSTANTIN



Friday 11<sup>th</sup> of November

ICAS 2022

13:30 – 15:00

**Parallel session 3**

***Human Capital and Demography***

**Chairs: Constanța MIHĂESCU (BUES)**

**Mircea ASANDULUI (Univ. A.I.Cuza, Iași)**

**Room**

**SEMINAR 5,**

**1<sup>ST</sup> FLOOR**

**Exploring the determinants of subjective wellbeing: evidence from the survey of health, ageing and retirement in Europe**

Mircea ASANDULUI, Andreea Oana IACOBUT-MIHAITA, Alexandra Cristina SIRBU, Claudiu Gabriel TIGANAS

**Econometric models of health performance indicators- case study**

Liviu POPESCU, Lucian MIRESCU

**A quantitative analysis of the determinants of health status (*online*)**

Emilia ȚIȚAN, Daniela-Ioana MANEA, Mihaela MIHAI, Crina-Dana IONESCU

**Exploring the perception on health in case on Romanian population**

Ileana NICULESCU ARON, Simona-Andreea APOSTU, Gina Cristina DIMIAN, Constanța MIHĂESCU, Jose Maria CANTOS

**Where is integration successful? An assessment of immigrants' integration in Europe using a multi-dimensional index**

Monica ROMAN, Smaranda CIMPOERU, Elena PRADA, Ioana MANAFI

**Health Professionals Migration: Causes, Evidence and Implications for Sustainable Development (*online*)**

Daniela-Ioana MANEA, Emilia ȚIȚAN, Mihaela MIHAI, Crina-Dana IONESCU

**Students' perceptions on the quality of the economics higher education in Romania**

Eugenia OANA, Emilia GOGU, Monica ROMAN, Erika MARIN



Friday, 11<sup>th</sup> of November

ICAS 2022

15:30 – 17:00

**Parallel session 4**

***Statistical Modelling in Macroeconomics and Finance***

**Chairs: Carmen Pintilescu (Univ. A.I. Cuza, Iași)**

**Daniel-Traian PELE (BUES)**

**Room**

**AMPHITEATRE**

**Assessing the public debt sustainability using the penalized spline regression. Empirical evidence for EU countries**

Alexandra-Claudia GROSU, Carmen PINTILESCU, Elena-Daniela VIORICĂ

**Financial risk meter for the Romanian stock market**

Daniel Traian PELE, Miruna MAZURENCU-MARINESCU-PELE, Alexandra CONDA,  
Raul Cristian BAG, Vasile Alecsandru STRAT

**Understanding saving decisions of Poles, supported by MCDA models**

Elzbieta KUBINSKA, Magdalena ADAMCZYK-KOWALCZUK, Anna MACKO, Michal BODA

**Macroeconomic Determinants of Household Indebtedness in Romania: An Econometric Approach**

Calcedonia ENACHE

**Interest Rates and Economic Growth in Romania: Is there cointegration?**

Alexandru CHIRILUS

**Demand for government spending: do your beliefs about public debt matter?**

Andreea STANCEA, Cecilia CIOCÎRLAN

**Does board gender diversity really improve financial performance and default risk? Evidence from Romanian companies engaged in international trade**

Coralia TANASUICA

**Foreign Direct Investments Influence on Growth and Productivity in Central and East European Countries**

Adrian LUNGU





Friday 11<sup>th</sup> of November

ICAS 2022

15:30 – 17:00

**Parallel session 5**

***Algorithms and Artificial Intelligence in Digital Age***

**Chairs: Cristina-Rodica BOBOC (BUES)**

**Mihaela CAZACU SUPEALĂ (ING TECH)**

**Room**

**SEMINAR 4,**

**1ST FLOOR**

**Does gamification lead to better results in education?**

Gianina Maria PĂTRAȘCU, Cristina BOBOC, Simona-Ioana GHIȚĂ, Andreea Simona SĂSEANU

**The paucity of reliable data. A bibliometric and content analysis of ESG ratings in research publications**

Adriana AnaMaria DAVIDESCU, Eduard Mihai MANTA

**“Seasonal adjustment” research topic in Web of Science: A brief analysis of the results (online)**

Tudorel ANDREI, Andreea MIRICĂ, Ionela-Roxana PETCU, Roxana-Violeta PARTAS-CIOLAN

**Virtual assistants - voicebot and chatbot - role, architecture and dynamic adjustment according to the challenges encountered in different industries (online)**

Denisa Elena BĂLĂ, Stelian STANCU

**Measuring and analyzing the efficiency of firms in the insurance industry using DEA techniques (online)**

Alexandra VINTILA, Irina-Maria TRUCMEL, Mihai Daniel ROMAN

**Developing data management capabilities for global citizens - a fit for the Digital Age**

Mihaela CAZACU SUPEALĂ, Emilia ȚIȚAN

**Machine learning and artificial intelligence through Robotic Process Automation technology**

Monica-Ioana VULPE, Stelian STANCU