

**The Bucharest University of Economic Studies
Department of Statistics and Econometrics**



**The 10th International Conference on
Applied Statistics (ICAS)**

3 – 4 JUNE 2016, BRAȘOV

The 10th International Conference on Applied Statistics (ICAS10-2016)

**The Bucharest University of Economic Studies &
Department of Statistics and Econometrics**

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Conference Program

Friday, June 3, 2016

Location: Hotel ARO, Braşov

10.00-10.30 **Opening Ceremony**

10.30-11.00 **Coffee Break**

11.00-14.00 **Papers presentations on Parallel Sessions**

14.00-15.00 **Lunch**

15.00-18.00 **Papers presentations on Parallel Sessions**

Saturday, June 4, 2016

11.00-14.00 **Cultural Program: Guided visit to the first Romanian School in Transilvania**

14.00 **Closing Lunch**

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SECTION 1 - Room Europa III

Chairs: **Ciprian Şipoş, Adriana Davidescu, Vasile Strat**

1. ROMANIA'S EU FUNDS ABSORPTION RATE: HOW TO IMPROVE IT?

Cristina Boboc, Simona Ghita, Valentina Vasile, Andreea Saseanu

2. LOGISTIC REGRESSION IN MODELLING SOME SUSTAINABLE DEVELOPMENT PHENOMENONS

Emilia Titan, Daniela Manea, Andra Anoaica, Cristina Boboc

3. THE DRIVING FORCES OF SHADOW ECONOMY IN EUROPEAN UNION COUNTRIES

Adriana AnaMaria Davidescu

4. LONELINESS RATE IN ROMANIA – FACEBOOK APPROACH

Liviu Begu, Mihai Sacala, Cristina Sacala

5. ECONOMETRIC STUDY USING MODELS THAT CAN HIGHLIGHT THE DYNAMIC STRUCTURE OF SEVERAL VARIABLES SIMULTANEOUSLY

Silvia Spătaru, Mihaela Covrig

6. EVALUATING THE OPINION OF BLOOD DONORS IN ROMANIA REGARDING THE QUALITY AND PERFORMANCE OPTIMISING OF BLOOD TRANSFUSIONS CENTERS IN ORDER TO INCREASE THE AVERAGE LIFE TIME

Elisabeta Jaba, Daniela Serban, Silvia-Elena Cristache, Simona Vasilache

7. GRADUATES' PROFILES IN ROMANIA

Emilia Gogu, Mihaela Mureşan

8. QUALITY OF LIFE MEASUREMENT ACROSS EUROPEAN UNION COUNTRIES – AN EXPLORATORY APPROACH

Iustina Boitan, Ionela Costica, Adriana Davidescu

9. IS THE COBB-DOUGLAS PRODUCTION FUNCTION RELEVANT? AN ECONOMETRIC ANALYSIS ON EUROPEAN UNION COUNTRIES

Ioana Viaşu, Ciprian Şipoş

10. BRAIN DRAIN - BRAIN GAIN, EVIDENCE FROM THE EUROPEAN UNION

Mihaela Grecu, Emilia Ţiţan

11. COMPARATIVE MULTIDIMENSIONAL ANALYSIS OF QUALITY OF LIFE FOR "SILVER POPULATION"

Mihaela Cazacu, Emilia Ţiţan

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12. FACTORS AFFECTING ENERGY TRAJECTORY IN EURASIA: A DYNAMIC PANEL GRANGER CAUSALITY ANALYSIS

Mohammed Seghir Guellil, Mostefa Belmokaddem, Boumediene Souiki, Yassine Zakaria Ghouali

13. THE DETERMINANTS OF ROMANIAN MIGRATION TO EUROPEAN COUNTRIES: STATIC AND DYNAMIC PANEL GRAVITY APPROACHES

Vasile Alecsandru Strat, Adriana AnaMaria Davidescu, Liviu Stelian Begu, Ioana Luciana Viasu

14. ARE WE MITIGATING UNJUSTIFIED THE RANDOMNESS OF THE ECONOMIC REALITY BY SELECTING THE 'APPROPRIATE' MODEL?

Vasile Alecsandru Strat

15. THE RELATIONSHIP BETWEEN KNOWLEDGE ECONOMY AND COMPETITIVENESS IN THE EU

Alina Mihaela Dima

16. DEVELOPMENTS IN THE SYSTEM OF ACADEMIC MOBILITY THROUGH THE ERASMUS PROGRAM. ANOTHER DIMENSION FOR THE QUALITY EVALUATION OF HIGHER EDUCATION

Ani Matei, Florica Georgeta Rotaru, Silvia Elena Cristache

17. HOW TO USE INFERENTIAL STATISTICS TO DRAW CONCLUSIONS FROM MEDICAL DATA

Claudia-Georgeta CARSTEA

18. A PANEL DATA APPROACH OF CITY PERFORMANCE ANALYSIS

Miruna Mazurencu Marinescu, Daniel Pele

19. BILATERAL TRADE AND CURRENCY UNIONS :EVIDENCE FROM THE EUROZONE

Miron Dumitru, Miclăuș Paul, Vamvu Danusia

SECTION 2 – Marble Room („Sala de Marmură”)

Chairs: Costel Ionaşcu, Zizi Goschin, Denisa Vasilescu

1. TRENDS AND TERRITORIAL DIFFERENCES ON ADOLESCENTS MATERNITY IN ROMANIA

Constanta Mihaescu, Laura Asandului, Ileana Niculescu-Aron, Raluca Caplescu

2. USING EVENT HISTORY ANALYSIS FOR STUDYING PROGRESSION TO SECOND BIRTH IN ROMANIA

Constanța Mihăescu, Ileana Niculescu-Aron, Raluca Căplescu

3. YOUTH’S PERCEPTION OF LABOUR MARKET OPPORTUNITIES

Liviu Stelian Begu, Maria Denisa Vasilescu

4. CURRENT PROBLEMS OF THE ROMANIAN HUMAN RESOURCES

Angelica Băcescu – Cărbunaru

5. DETERMINING THE LEADING INDICATORS OF FINANCIAL CRISIS: NEURAL NETWORKS OR LOGISTIC REGRESSION?

Smaranda Cimpoeru

6. A STATISTICAL ANALYSIS OF THE DIFFERENCES BETWEEN THE PREFERENCE TOWARDS C-SECTION DELIVERY STATED BY THE PREGNANT WOMEN AND THE ACTUAL BIRTH METHOD USING MCNEMAR TEST

Erika Marin, Anca Angela Simionescu

7. EXPLORING THE REGIONAL ECONOMIC CONVERGENCE IN ROMANIA. A SPATIAL MODELING APPROACH

Zizi Goschin

8. MAIN DETERMINANTS OF ROMANIAN EMIGRATION. A REGIONAL PERSPECTIVE

Zizi Goschin

9. PUBLIC PERCEPTIONS OF IMMIGRATION IN EUROPEAN UNION: A SURVEY ANALYSIS OF EUROBAROMETER 83.3

Elena-Maria Prada

10. SPATIAL CONVERGENCE PROCESSES ON THE EUROPEAN UNION’S LIFE INSURANCE MARKET

Codruța, Mare, Dragoș Simona Laura, Dragotă Ingrid-Mihaela, Mureșan Gabriela Mihaela, Urean Claudia Andreea

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11. DYNAMICS OF ROMANIAN ECONOMY DURING 2016 – 2020

Constantin Duguleană, Liliana Duguleană

12. JOB POLARIZATION AND MISMATCH IN ROMANIA

Gina Cristina Dimian

**13. WEIGHTING METHOD FOR DEVELOPING COMPOSITE INDICES.
APPLICATION FOR MEASURING SECTORAL SPECIALIZATION**

Ana-Maria Sava

14. SCIENTIFIC EVALUATION OF ACADEMIC RESEARCH IN EU COUNTRIES

Florentin Șerban, Silvia Dedu, Ana -Teodora Șerban – Opreșcu, Luiza Bădin

**15. A QUANTITATIVE ANALYSIS OF THE FACTORS CONDITIONING THE
INCLUSION ON THE UNESCO WORLD HERITAGE LIST**

Violeta Mihaela Dincă, Daniela Șerban

16. ETHICAL PROBLEMS OF LONGITUDINAL STATISTICAL RESEARCH

Vergil Voineagu, Gabriela Munteanu, Loredana Stoica, Anna-Alexandra Frunza

**17. REFLECTIONS ON STATISTICAL METHODS TO DESIGN LONGITUDINAL
SURVEYS**

Vergil Voineagu, Gabriela Munteanu, Simona-Andreea Apostu, Claudiu-Andrei Vaida-Muntean

18. THE FINANCIAL SECTOR INFLUENCE ON PORTFOLIO DYNAMICS

Constantin Anghelache, Mădălina Gabriela Anghel, Cristina Sacală

SECTION 3 – Room Europa III

Chairs: **Steliana Sandu, Liliana Duguleană, Silvia Cristache**

1. STRATEGIES AND PERSPECTIVES REFERRED TO THE ANALYSIS AND DEVELOPMENT OF THE PREUNIVERSITY EDUCATION SYSTEM FROM ROMANIA

Lavinia Ștefania Țoțan, Valentin Sorin Popescu

2. ECONOMIC AND FINANCIAL ANALYSIS OF ROMANIAN INTERNATIONAL TRADE

Constantin Anghelache, Alexandru Manole, Mădălina Gabriela Anghel

3. SOME ASPECTS REGARDING THE INFLATION EVOLUTION DURING THE LAST PERIOD

Constantin Anghelache, Mădălina Gabriela Anghel, Alexandru Ursache

4. THE USE OF REGRESSION MODEL IN ANALYSING THE CORRELATION BETWEEN THE MONETARY SITUATION AND THE BALANCE OF PAYMENTS

Constantin Anghelache, Alexandru Manole, Emilia Stanciu

5. MODEL REGARDING THE DYNAMIC MANAGEMENT OF SHARES PORTFOLIO

Constantin Anghelache, Mădălina Gabriela Anghel, Marius Popovici

6. FINANCIAL-MONETARY ANALYSIS MODEL

Constantin Anghelache, Mădălina Gabriela Anghel, Marius Popovici

7. A DIFFERENTIATION OF THE ECONOMIC AND POLITICAL FACTORS IMPACT ON THE STRUCTURAL REFORMS IN CEE COUNTRIES

Ionuț Bușega, Madălina Radu

8. REGRESSION ECONOMETRIC MODEL AND THE ANALYSIS OF BASIC CORRELATION REGARDING ECONOMIC GROWTH

Constantin Anghelache, Alexandru Manole, Mădălina Gabriela Anghel

9. AN EXPECTANCY THEORY MODEL FOR HOSPITALS' EMPLOYEE MOTIVATION

Marji Tania Issa Eid

10. R&D DIVERGENCE AMONG EU COUNTRIES

Steliana Sandu, Irina Anghel, Georgiana Gloria Goschin

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**11. THE NATIONAL ABSORPTION CAPACITY FOR KNOWLEDGE IN ROMANIA
AND IN CEE COUNTRIES**

Steliana Sandu, Georgiana Gloria Goschin

**12. INVESTIGATING THE QUALITY OF HOUSEHOLD LOANS FROM A
FINANCIAL STABILITY PERSPECTIVE**

Roxana Luminița Tatarici

13. MIGRATION MOTIVATION IN EU – A STATISTICAL APPROACH

Mihaela Grecu

14. STATISTICAL METHODS FOR QUANTIFYING HARM TO COMPETITION

Cristian Busu, Mihail Busu, Florentin Serban

**15. REAL BUSINESS CYCLES ANALYSIS FOR ROMANIA ECONOMY-A
BAYESIAN MACROECONOMIC APPROACH**

Georgiana-Alina Ionita

**16. ECONOMETRIC ANALYSIS OF THE TURNOVER OF A ROMANIAN
COMPANY**

Cristina Stanciu-Mandrulanu

17. DACIA SALES ANALYSIS ON THE DOMESTIC MARKET

Georgeta Soava, Mircea Raduteanu

**18. ASSESSING THE RISK OF CONTAGION ON THE ROMANIAN STOCK
MARKET**

Victoria Citirigă

19. ROMANIAN INSURANCE MARKET OVERVIEW

Alexandru Hanța

**20. INVESTIGATING THE PREDICTIVE POWER OF VAR ON THE ROMANIAN
MARKET**

Andrei Rusu

**21. USING APPROACH QUANTILE REGRESSION TO DETERMINE THE
FACTORS AFFECTING MEASURING TAXES CAPACITY IN IRAQ**

Monica Roman, Ali Sadig Mohommed Bager, Meshal Harbi Odah

**22. 2³ FACTORIAL DESIGN OF EXPERIMENTS WITH EXPONENTIAL
DISTRIBUTION FOR RESPONSE VARIABLE**

Bahr k. Mohammed