



DEPARTMENT OF STATISTICS AND APPLIED  
INFORMATICS, FACULTY OF ECONOMY, UT



## 5th INTERNATIONAL CONFERENCE

# **“Information Systems and Technology Innovations: projecting trends to a New Economy”**

## **CONFERENCE AGENDA**

in collaboration with:  
Academy of Sciences of Albania,  
University for Business and Technology, Kosovo

<http://www.conference.ijsint.org>

June 6-7, 2014  
Tirana, Albania

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Edlira MARTIRI  
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## 5th INTERNATIONAL CONFERENCE

*June 6th, 2014*

Rogner Hotel, Tirana  
Opening day, Apollonia Hall

16.30-17.00 Registration  
17.00-18.15 Opening Ceremony  
18.15-18.30 Coffee break  
18.30-20.00 Invited guests and sponsors

*June 7th, 2014*

Rogner Hotel, Tirana  
Conference Sessions, Prague, Vienna, London conferences rooms

### 09.00-10.45 Parallel Sessions

1. "Engineering and data communication" – PRAGUE Room
2. "Emerging technologies" – VIENNA Room
3. "New Economy and innovation" – LONDON ROOM

### 10.45-11.15 Coffee break

### 09.00-10.45 Parallel Sessions

4. "Information Security" – PRAGUE Room
5. "Information Systems" – VIENNA Room
6. "Applied Statistics" – LONDON ROOM



**Dear guests, participants, colleagues and students!**

**Dear ladies and gentlemen!**

It's a great honor for me to welcome you in the International Scientific Conference entitled "Information Systems and Technology Innovations: projecting trends to a New Economy", organized by the Department of Statistics and Applied Informatics, Faculty of Economy, University of Tirana.

This year our department organizes the fifth consecutive conference, thus strengthening its positive role in IT developments not only in Albania, but also in the region and beyond. It also denotes that the previous conferences had such a success that the next conference is just the right opportunity to bring forward what was achieved till recently. The experience from previous conferences makes us very proud and impatient for this event. Previous years and conferences have contributed in creating a wide communication platform inside the academic world, including representatives from several countries inside EU and beyond, and strengthening the collaboration with various business representatives and other national or international institutions.

Recently, entrepreneurship, innovation and creativity have been seen as possible ways to solve the current economic, societal and environmental crisis as well as to generate growth. This is the case because technology and innovation are portrayed as seeds of new initiatives and ideas that will boost the new economic development. Information systems development, technological trends and their projection to different fields of society are seen as the transitive roads from traditional to service-based economy.

In this conference, the participants will have the opportunity to share experience with more than 200 authors coming from several countries, including Kosovo, Macedonia, Greece, Austria, Sweden, USA, Canada, etc. The main topics include Information Systems and Technologies, Information Processing and Management, Information Security, Business Information Management, Cloud Computing and Mobile Technologies, Engineering and Networks, Modeling and Forecasting, Applied Statistics, Digital Economy and other topics related.

This Conference would not be possible without the proper devotion of the members of the department, of the participants and especially of our guests of honor.

A special credit goes to the Albanian Academy of Sciences for its strong support, and also to the University for Business and Technology in Kosovo.

Allow me to thank in particular our Conference sponsors that supported this important activity with their kindness, as they also did in the past conferences. Among them, allow me to thank especially Agna Group, iKub, the Albanian Information Technology Association, DM Consulting Services and EPICT for the collaboration and support offered.

A special credit goes to the organizing team and to the Economic Informatics students for their continuous help and devotion during the Conference.

Thank you to everyone!

Prof. Dr. Kozeta SEVRANI

Head of the Department of Statistics and Applied Informatics





*June 7th, 2014*

**09.00-10.45 SESSION 1**

**"Engineering and data communication" – Presentations**

PRAGUE Room

**MODERATOR:** Neki FRASHERI, Habib HAMAM

1. Node Clustering in Sensor Networks for Smart Building Environments  
Adriola FAQOLLI, Sokol DERVISHI, Artemis HASA
2. Optimization of the Public Urban Transportation Network For Pristina City  
Bashkim ÇERKINI, Robert KOSOVA, Teuta THANASI
3. Revenue benefits of mobile operators in Albania from the usage of 4G technology  
Julian IMAMI, Ergest ALITE, Lorena BALLIU
4. Intelligent System Assistance in Water Pollution  
Eva Cipi, Flora Qarri
5. Why Do Government ICT Projects Fail? A case from the Albania  
Valmira OSMANAJ, Bashkim RUSETI
6. The use of volumetric method and Monte Carlo simulation for estimating oil reserves in the oilfield of Marinza  
Robert KOSOVA, Irakli PRIFTI, Bashkim QERKINI
7. IPA KHE-STO: Enhancing Knowledge for Better Public Transport  
Elson AGASTRA, Tanja FLOQI, Neki FRASHËRI, Jorgo KAÇANI, Frederik PREMTI, Jonida TETA, Eralda XHAFKA, Eralda ZENELI

**SESSION 1:**

**"Engineering and data communication" – Posters**

8. An Experimental Study of a 3D JavaScript Model for Building Large-Scale Transport Network  
Leogena ZHAKA, Msc.Gerta GRADECI, Endrit XHINA

9. Analyzing VoIP over WLAN, 3G, WIMAX and LTE issues.  
Olimpjon SHURDI, Rozeta MIHO, Luan RUÇI
10. Comparing NTFS File System with ETX4 File System  
Akli FUNDO
11. Reducing overhead in balanced Web servers through non periodic state control intervals  
Indrit ENESI
12. The Analysis and the Design of FRP Reinforcing for RC Elements and the Calculation Algorithm of these Elements under the Action of Shear Force  
Igli KONDI, Alma AFEZOLLI, Elvis CAPO
13. A view on management and category theory  
Skender OSMANI
14. Schema.org, usability and functionality  
Arbër BESHIRI
15. Virtualization and high education's approach to delivering technology (Albanian Case)  
Alma STANA, Luciana TOTI, Ajakida ESKI, Mimoza KARAFILI
16. A finite difference method for the solution of the second order quasi-linear hyperbolic equations in one dimension space  
Adrian NAÇO, Endri RAÇO, Teuta MYFTIU, Lulezim HANELLI
17. Some oscillation conditions for second order nonlinear differential equations  
Xhevair BEQIRI, Urijan RRAMANI

## 09.00-10.45 - SESSION 2

### "Emerging technologies" – Presentations

VIENNA Room

**MODERATOR:** Edmond HAJRIZI, Felix BRETENECKER

1. Modeling and simulation in Kosovo - case study: UBT SIM  
Edmond HAJRIZI, F. BRETENECKER, A. KOERNER, K. PIREVA
2. App development in Albania, trends and resources  
Artur NURJA, Kozeta SEVRANI
3. Soft Systems Methodology: An Inclusive Informatics Re-Design Approach for a New Economy  
Niki CHATZIPANAGIOTOU
4. Cloud Computing in Universities with Existing Infrastructure. Case Study: SEEU Research Lab 816  
Agon MEMETI, Dhuratë HYSENI, Betim ÇIÇO
5. Compressing 2D Images Through Data Representation Using Spiral Path  
Elda CINA, Esmerald ALIAI, Habib HAMAM
6. The use of an android platform application as a way to promote attractive touristic spots in Republic of Kosovo  
Arbnor HALILI, Albert ALIU, Korab RRMOKU
7. Smart Grid-The new technology in electricity  
Edera GJUZI, Milena SHEHU

## SESSION 2:

### "Emerging technologies" – Posters

7. A Model For Information Classification In Cloud Computing  
Valma PRIFTI, Ledina KARTERI
8. Refarming-More Efficient Spectrum Use  
Loreta ANDONI

9. Priority Based Scheduling Algorithm on Smartphones UE  
Luan RUÇI, Luan KARÇANAJ, Olimpjon SHURDI
10. Cloud Computing and its development in Albanian businesses  
Aida BITRI, Eris ZEQQ, Enida SHEME
11. Automation of e-Government Processes through Windows Workflow Foundation, a Use Case Study for Construction Permit Urban Service Process in Municipalities  
Dhori TERPO, Endri XHINA, Roland VASILI
12. Data Mining Techniques in database systems  
Ledion LIÇO
13. Some applications of SVD in economics  
Bilall I. SHAINI
14. Currency Exchange Rate Forecasting Using Machine Learning Techniques  
DENADA XHAJA, INVA BILO, ANA KTONA
15. Applications and benefits of Simulation in SME's.  
Blerta MJEDA, Eneida PERMETI
16. Government Cloud For Good Governance  
Vilma TOMCO
17. The Combination of GIS With BI Component in Decision Making  
Shkelqim KUKA, Adrian NAÇO, Teuta MYFTIU, Endri RAÇO

**MODERATOR:** Dhimiter TOLE, Andrea ALBERICI

1. Importance of Customer Trust in E-commerce and Cultural Differences  
Besnik SKENDERI
2. Business Planner Application Development Through Kivy Platform  
Orges ÇIÇO, Silvia SADUSHI, Suela KODRA
3. Artificial Economy and the usage of ACE  
Igli HAKRAMA
4. Technical Challenges and Economic Opportunities of Cloud Computing Implementations in Albania  
Ergest ALITE, Julian IMAMI
5. Modeling the relationship between inflation and inflation uncertainty: Case of Albania  
Anisa PLEPI, Blerina LESI
6. Improving Customer Relationships with Customer Care and Billing Solutions  
Taulant PIERO

**SESSION 3:**

**"New Economy and innovation" – Posters**

7. Impact of Financial Crisis on Public Debt in Albania  
Adela SHERA Bernard DOSTI
8. Statistical relationship between rural poverty and congenital birth defects in albania: a GIS approach  
Akli FUNDO, Endri RAÇO, Teuta MYFTIU, Adrian NAÇO
9. OCA and Greece  
Lisnaja KELMENDI

10. The trend of the shrinking remittances and its correlation to GDP, to FDI and the Albanian National Debt and what is to be done next.  
Teuta THANASI , Fabiana ÇULLHAJ , Gjergj THANASI
11. Trends of Mobile Applications in the New Economy  
Romina MUKA, Edlira MARTIRI
12. Market Equilibrium solution of combinatorial algorithms  
Laureta HAJDERANJ , Senada BUSHATI, Viola SHTINO
13. Using OLS for testing EKC environmental Kuznets curve hypothesis in Albania - Measuring the relationship between the Environmental Quality and Economic Growth  
Klodiana GORICA, Anita GUMENI, Zhaneta NDREGJONI, Mimoza, MANXHARI
14. Extensions of Premium Setting for a Health Insurance Fund for Kosovo  
Edmond MUHAXHERI, Ermelinda MEKSI
15. Business Continuity Plan  
Gjergji MULLA, Alkid ADEMI
16. A mobile phone based application for educating obesity children to rehabilitate their illness.  
Loren NEBIAJ, Gloria TYXHARI, Edlira KALEMI, Jozef BUSHATI
17. DNA of Public Organizations  
Vasilika KUME, Etleva LESKAJ, Sadete PATUSHI

**10.45-11.15 Coffee break**

## 11:15-13:00 - SESSION 4

### "Information Security" – Presentations

PRAGUE Room

**MODERATOR:** Anita MIRIJAMDOTTER, Rovena BAHITI

1. How to facilitate non customer identification data for AML (Anti Money Laundering) reporting purposes  
Evis DRINI, Rovena BAHITI
2. Securing BYOD: Having the Control of Security When You Don't Own the Device  
Edlira MARTIRI, Enkeleda IBRAHIMI, Çeljeta SHEHU, Diola SULA
3. Albanian user attitudes in creation of passwords, statistical and comparative analysis of security of textual password based authentication method  
Llesh LLESHAJ, Ezmolda BAROLLI, Loren NEBIAJ, Jorgo CIPA
4. The Role of Guilt Proneness in Information Security Compliance  
Miranda KAJTAZI
5. WEB Applications(Open Source) on the Electroenergetic Distribution Corporate (E-Bill/Data-cleaning formular, New Connection/E-Status,)  
Nevila BACI, Anni DASHO, Albana GORISHTI, Genci SHARKO
6. Testing accounts security from hacking attacks ,initiated on specified hardware configuration computers running different OS  
Ana GJATA, Kristjano MONKA

## SESSION 4

### "Information Security" – Posters

7. Comparing Electronic voting systems in terms of security and costs  
Elva LEKA, Bukuroshe XHAJA, Eda Tabaku
8. Data Mining application in the field of criminology.  
Ana KTONA, Dhimiter KIKINA, Denada XHAJA, Olta PETRITAJ

9. A Proposed Architecture for Traceability System on Albanian Products Based on QR Code and Mobile Technology  
Kreshnik VUKATANA, Elira HOXHA
10. Security in embedded sensor actor networks  
Kujtim HYSENI, Neki FRASHERI
11. Game theory and network security  
Majlinda GODOLJA
12. Security in Quantum Cryptography  
Enida PUTO, Kozeta SEVRANI
13. Border Gateway Protocol Implementation as the Routing Protocol on the Internet  
Ledina KARTERI, Valma PRIFTI, Arianit KRYPA
14. E-commerce and online safety – projecting the future of online transactions  
Nevila BACI, Erjon ZOTO, Mirlinda KARCANAJ
15. Open Government Data in Albania  
Edlira KALEMI, Mirjeta DERA
16. Error localization and error correction in datasets  
Blerina SUBASHI



## 11:15-13:00 - SESSION 5

### "Information Systems" – Presentations

VIENNA Room

**MODERATOR:** Mary SOMMERVILLE, Mirlinda KARCANAJ

1. Organizational Systems, Learning Processes, and Knowledge Practices: Informed Systems Methodology Elements  
Mary M. SOMERVILLE
2. Development of Information Systems and the necessity for technical approaches for Interoperable systems within Governmental Institutions  
Kujtim GASHI, Albert ALIU, Arbnor HALILI
3. Social Enterprises, Innovation and Information Systems  
Edmond HAJRIZI
4. Advantages of serialized RDF statements versus Relational Databases using Protégé Plugin  
Ylber JANUZAJ, Arben HAJRA
5. Platforms Connecting for a better e-Government  
Mirlinda, KARCANAJ, Blerina VIKA, Blerina PIRANI
6. The making of a Non-traditional BI suite  
Andrea ALBERICI, Tea TAVANXHIU

## SESSION 5

### "Information Systems" – Posters

7. Implementation of Open Source Software in Public Sector of Albania. E-Learning platform in SAI Department  
Romina MUKA, Albana GORISHTI
8. The Skills of Effective Decision Making for Public Administrators  
Etleva LESKAJ, Vasilka KUME, Eglantina ZYKA
9. Spatial data mining, geographic knowledge discovery from spatial data  
Gerta GRADECI, Elma ÇELA (KOLÇE), Leogena ZHAKA, Ana DHEMBI

10. Finding out factors which influence customer behavior on E-banking acceptance in the Albanian Market  
Klaudia CARCANI, Selda GOROVELLI
11. Data Envelopment Analysis: an application to measure efficiency of commercial banks in Albania  
Alma SPAHO
12. A service-oriented digital library for scientific articles published in Albania  
Klesti HOXHA, Alda KIKA, Eriglen GANI

**11:15-13:00 - SESSION 6**  
**"Applied Statistics" – Presentations**

LONDON Room

**MODERATOR:** Ermelinda MEKSI, Majlinda GODOLE

1. Toward a new economic model of convergence  
Ermelinda MEKSI, Ermelinda XHAJA
2. Adolescent disordered gambling. A hidden addiction  
Emil FRASHERI, Argjir BUTKA
3. The economics of immigrant entrepreneurship from the perspective of production standards  
Elvira FETAHU, Ilir BEJTJA, Elona FETAHU
4. Re-estimating the main factors of the potential output growth in Albania during 2003-2013  
Evelina ÇELIKU
5. Acceptance and adoption of e-learning system by academic staff in higher education  
Gazmend XHAFERI, Rovenah BAHITI
6. House Price Determinants: A Hedonic Regression Analysis  
Delina IBRAHIMAJ

## SESSION 6:

### "Applied Statistics" - Posters

7. Exchange rate model. Case of Albania  
Valentina SINAJ, Iris DAMANI, Megi SAKOLLARI
8. Using artificial neural networks for forecasting a time series  
Viola SHTINO, Senada BUSHATI, Laureta HAJDERANJ
9. Statistical methods for poverty analysis  
Elena MYFTARAJ, Eglantina ZYKA, Mirela UJKANI
10. Financial time series forecasting using a hybrid ARIMA neural model  
Roneda MUCAJ, Valentina SINAJ
11. Ant Colony Optimization  
Alma BREGAJ
12. Trends in poverty, 2005-2008-2012  
Evgjeni XHAFAJ, Ines NURJA
13. Determinants of Electronic Credit/Debit Cards Use in Albania  
Alma SPAHO, Majlinda GODOLJA
14. The changes in housing conditions, 2002-2012  
Ines NURJA, Ledia THOMO, Kozeta SEVRANI

