

This is a preliminary version of the InfoTech-2015 Conference Program and some changes could be made. The participants will get the official Conference Program during the On-Site Registration.

International Conference InfoTech-2015
Thursday, 17th September 2015

13:30 – 14:00 (Hall 5)

Official Opening Session

Opening Speech and Introduction

Prof. Radi Romansky, D.Sc.

Chairperson of the Organizing Committee (Bulgaria)

Invited Keynote

14:00 – 15:00 (Hall 5)

Report Session

Chairpersons: Prof. Radi Romansky, D. Sc. (Bulgaria)
Prof. Plamen Mateev, Ph.D. (Bulgaria)

Section 'A': Information Technologies

Specialized Information Technologies

- A01 **A Reference Point Genetic Algorithm for Multi-Criteria Job Shop Scheduling Problems**
Vassil Guliashki, Leonid Kirilov
Institute of Information and Communication Technologies – BAS (Bulgaria)
- A02 **Comparative Analysis of the Electoral Distribution Methods in Bulgarian Voting Legislation**
Iliya Goranov
Institute of Information and Communication Technologies – BAS (Bulgaria)
- A03 **Design of Portable ECG Module**
Valentina Markova, Ventseslav Draganov, Edy Velikov, Yasen Kalinin
Technical University – Varna (Bulgaria)

15:00 – 15:40 (Foyer)

Coffee Discussion

15:40 – 18:00 (Hall 5)

Report Session

Chairpersons: Prof. Vangel Fustik, Ph.D. (Rep. of Macedonia)
Assoc. Prof. Dimitar Tsanev, Ph.D. (Bulgaria)

Section 'B': Information Security, Privacy and Network Applications

Cloud Computing

- B03 **Large Scale Data Processing in the Cloud**
André Martin, Christof Fetzer
TU Dresden, Faculty of Computer Science, Dresden (Germany)

Web Applications

- B04 **Web Applications Variability – Technological Trends and Models**
*Iliya Nedyalkov*¹, *Ivo Damyanov*²
¹ University of National and World Economy, Sofia (Bulgaria)
² South-West University, Blagoevgrad (Bulgaria)

Section 'C': Intelligent Systems and Applications

Intelligent and Agent Systems

- C01 **Multi-Agent Framework for Intelligent Networks**
*Georgi Tsochev*¹, *Roumen Trifonov*², *Radoslav Yoshinov*³
¹ Technical University - Sofia (Bulgaria)
² Computer Systems Dept. at Technical University - Sofia (Bulgaria)
³ Director of Telematics Laboratory at BA Sciences (Bulgaria)
- C02 **Step by Step Data Preprocessing for Data Mining. A Case Study**
Mirela Danubianu
"Stefan cel Mare" University of Suceava (Romania)

Section 'D': Technologies for System Design

Computer Architectures and Automation of System Design and Research

- D01 **Quantum Circuits for Quantum Walks on the Hypercube**
Adina Bărilă
"Ștefan cel Mare" University of Suceava (Romania)
- D02 **Daily Optimal Operation of Power Plants in a Complex Power System**
Sofija Nikolova-Poceva, Anton Causevski, Vangel Fustik
University "Ss. Cyril and Methodius", Skopje (Rep. of Macedonia)

20:00 – 23:00

Official Conference Diner

International Conference InfoTech-2015
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09:00 – 11:20 (Hall 5)

Report Session

Chairpersons: Assoc. Prof. Roumen Trifonov, Ph.D. (Bulgaria)
Assoc. Prof. Maria Nikolova, Ph.D. (Bulgaria)

Section 'A': Information Technologies

Actual Information Technologies

- A04 **Gridrages with Curvelinear Elements from Plane Circumference**
Liliya Petrova
Dep. "Mechanics", VTU "T. Kableshkov" (Bulgaria)
- A05 **IT Project "Challenges 3D-the Island"**
Krasimir Bozhinov, Luchezar Iliev, Ivan Dzhendov
Secondary School of Maths and Science "Prof. Asen Zlatarov" (Bulgaria)
- A06 **GetYourStats**
Svetlin Yotov
SiS Develop (Bulgaria)

Section 'E': Technological Aspects of e-Governance and Data Protection

Technological Aspects of e-Governance

- E01 **Perspectives for ICT Applications in e-Democracy**
Maria Nikolova
New Bulgarian University, Sofia (Bulgaria)
- e-Learning and Educational Aspects*
- E04 **E-Learning Project for Interoperability in the Context of Electronic Government**
Milena Yorfanova¹, Roumen Trifonov², Slavcho Manolov³
¹ TEZA (Bulgaria)
² Department Computer Systems at Technical University - Sofia (Bulgaria)
³ Chairman of the Board and CEO of Association EDIBUL (Bulgaria)
- E05 **MOOCs and MOOC Platforms – Brief Survey, Innovations, Trends and Future**
Tatyana Ivanova
Technical University of Sofia, CEE (Bulgaria)
- E06 **Game Strategies in Education Process**
Iglika Getova
University of Library Science and Information Technologies (Bulgaria)

11:20 – 12:00 (Foyer)**Poster Session and Coffee Discussion**

Chairperson: Assoc. Prof. Irina Noninska, Ph.D. (Bulgaria)

Section 'A': Information Technologies*Web Applications*

- A07 **Design and Develop a Webgis Application for Android**
P. Salla, S. Kolios, C. Stylios
 Technological Educational Institute of Epirus (Greece)

Section 'B': Information Security, Privacy and Network Applications*Information Security and Privacy*

- B01 **Security and Privacy Principles Realization in e-Learning Architecture**
Radi Romansky, Irina Noninska
 Technical University of Sofia (Bulgaria)
- B02 **Formalization and Modelling of Secure Access in e-Learning Environment**
Radi Romansky, Irina Noninska
 Technical University of Sofia (Bulgaria)

Section 'C': Intelligent Systems and Applications*Intelligent and Agent Systems*

- C03 **A Ridge Regression Approach for Quantum Machine Learning**
Vanya Markova, Ventseslav Shopov
 Institute for SER – BAS (Bulgaria)
- C04 **Approach for Quantum Clustering with Constrains**
Vanya Markova, Ventseslav Shopov
 Institute for SER – BAS (Bulgaria)
- C05 **Approach for Reducing the Number of Attributes in Feature Engineering**
Ventseslav Shopov, Vanya Markova
 Institute for SER – BAS (Bulgaria)
- C06 **Fast Adaptive Learning Algorithm for Classification of Time Series with Sigmoid Treshold**
Ventseslav Shopov, Vanya Markova, Velko Itchev
 Institute for SER – BAS (Bulgaria)

Knowledge-Based Applications

- C07 **FPGA Robotic System for Tracking Objects and Digital Image Processing**
Rosen Spirov, Georgi Angelov
 Technical University of Varna (Bulgaria)

Section 'D': Technologies for System Design*Computer Architectures and Automation of System Design and Research*

- D03 **Selection the Approximating Function for Isobologram Modeling**
Kaloyan Yankov
 Trakia University (Bulgaria)

D04 Implementation of Hardware and Software Modules for Lab Robots

Andrei Hinkov, Mladen Milushev
Technical University of Sofia (Bulgaria)

D05 Dependence of Three-Phase Distribution Transformer Core Losses From Current Harmonics

Mihail Digalovski, Goran Rafajlovski, Krste Najdenkoski
University "Ss. Cyril and Methodius", Skopje (Rep. of Macedonia)

Section 'E': Technological Aspects of e-Governance and Data Protection

Technological Aspects of e-Governance

E02 Standartozation of Electronic Identity Management

Slavcho Manolov¹, Roumen Trifonov², Radoslav Yoshinov³

¹ Chairman of the Board and CEO of Association EDIBUL (Bulgaria)

² Department Computer Systems at Technical University - Sofia (Bulgaria)

³ Director of Telematics Laboratory at BAS (Bulgaria)

E03 E-Government Applications for integrated Access to Complex Data Resources Using Multi-Agent Systems

Roumen Trifonov¹, Slavcho Manolov², Radoslav Yoshinov³

¹ Department Computer Systems at Technical University - Sofia (Bulgaria)

² Chairman of the Board and CEO of Association EDIBUL (Bulgaria)

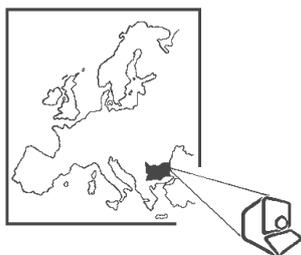
³ Director of Telematics Laboratory at BAS (Bulgaria)

12:00 (Foyer)

Conference InfoTech-2015 Closing



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InfoTech-2015