

This is a preliminary version of the InfoTech-2014 Conference Program and some changes could be made. The participants will get the official Conference Program during the On-Site Registration.

International Conference InfoTech-2014
Thursday, 18th September 2014

13:30 – 14:20 (Hall 5)

Official Plenary Session

Opening Speech and Introduction

Prof. Radi Romansky, D.Sc.

Chairperson of the Organizing Committee (Bulgaria)

Section 'A': Plenary Report

Chairpersonm: Prof. Radi Romansky, D. Sc. (Bulgaria)

A01 Plenary Report

Energy Security Policy of the EU – The Role of the Western Balkan

Prof. Dr. Goran Rafajlovski

University “Cyril and Methodius” Skopje, Faculty of Electrical Engineering and Information Technologies (Macedonia)

14:20 – 15:00 (Foyer)

Group Photo and Coffee Discussion

15:00 – 16:30 (Hall 5)

Report Session

Chairpersons: Prof. Goran Rafailovski, Ph.D. (Macedonia)

Assoc. Prof. Dimitar Tsanev, Ph.D. (Bulgaria)

Section 'B': Information Technologies

Software Technologies and Programming

B01 **Hybrid Evolutionary Algorithm for Multiple Objective Convex Integer Problems**

Vassil Guliashki, Leoneed Kirilov

Institute of Information and Communication Technologies – BAS, Sofia (Bulgaria)

B02 **A Python Graphical User Interface for Climate Data Plotting and Processing**

Yoncho Yonchev¹, Wiliam Cabos Narvaez²

¹ TU-Sofia (Bulgaria), ² University of Alcalá (Spain)

B03 Ring-Like Finite Element with Linear Variable Thickness with Axis-Symmetrical Loaded Plates

Liliya Petrova

VTU "T. Kableschkov: - Dept. of Mechanics (Bulgaria)

B04 Using GeoReferenced Applications as an Addition to the Concept of e-Business in the Field of Alternative Tourism

Galin Milchev, Radoslav Miltchev

University of Forestry (Bulgaria)

Database Management Systems and Information Systems

B05 Taxonomy for Describing of Data Building Blocks

Vassil Milev

St. St. Cyril and Methodius University of Veliko Turnovo (Bulgaria)

16:30 – 18:00 (Hall 5)

Report Session

Chairpersons: Assoc. Prof. Vassil Furnadzhiev, Ph.D. (Bulgaria))

Assoc. Prof. Roumen Trifonov, Ph.D. (Bulgaria)

Section 'B': Information Technologies

Digital Signal Processing and Applications

B06 Software Implementation and Performance Evaluation of a Baseline Fault Detection RAIM Algorithm

Alban Rakipi¹, Bexhet Kamo¹, Shkelzen Cakaj², Argenti Lala¹

¹ Polytechnic University of Tirana (Albania)

² Prishtina University (Kosovo)

B07 Sensitivity Investigations of Even Order Allpass Based Hilbert Transformers

Kamelia Nikolova

Technical University of Sofia (Bulgaria)

Business Intelligence, CRM- and ERP-Systems

B08 The Company Specific Orientation of Customer Relationship Management in the Context of Technical Wholesale

Andreas Pescholl, Haustechnik Handels-GmbH (Germany)

B09 IT Project "Timeline^{1.0 BETA}"

Krasimir Bozhinov, Svetlin Youtov

Secondary School of Maths and Science "Prof. Dr. Assen Zlatarov",
Botevgrad (Bulgaria)

Virtual and Mixed Reality

B10 A 360 Degree View of an Object Presented in Internet

Elena Parvanova

Technical University of Sofia, CEE (Bulgaria)

20:00 – 23:00

Official Conference Dinner

International Conference InfoTech-2014
Friday, 19th September 2014

09:00 – 10:45 (Hall 5)

Report Session

Chairpersons: Assoc. Prof. Vassil Vurnadzhiev, Ph.D. (Bulgaria)
Assoc. Prof. Kaloyan Yankov (Bulgaria)

Section 'C': Networking, Distributed Systems and Applications

Networking – Protocols, Design, Investigation

C01 Semantic Data for Device Management in M2M Communications

Ivaylo Ivanov Atanasov

Technical University of Sofia (Bulgaria)

C02 Internet of Things – Communications and Network Protocols

Pavlinka Radoyska

Technical University of Sofia, CEE (Bulgaria)

Cloud Computing and Mobile Cloud Computing

C07 Reviewing NIST Cloud Computing Definition

Danko Naydenov

Technical University of Varna (Bulgaria)

Web-Based Applications, Adaptive and Personalized Environments

C08 Web Services: Features, Technologies and Applications

Malinka Ivanova

Technical University of Sofia, CEE (Bulgaria)

C09 Analysis of a Personal Learning Environment from Multimedia Perspective

Malinka Ivanova¹, Minoru Nakayama²

¹ Technical University of Sofia, CEE (Bulgaria)

² Tokyo Institute of Technology (Japan)

Ontology and Semantic Web

C10 Semantic Web Services – Approach and Framework for e-Service Discovery

Anna Rozeva

Technical University of Sofia (Bulgaria)

10:45 – 11:30 (Foyer)

Poster Session and Coffee Discussion

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

Section 'C': Networking, Security and Distributed Systems*Networking and Information Security*

- C03 **Securing Network Communications with TLS and IPsec**
V. Gayoso Martínez, L. Hernández Encinas, A. Martín Muñoz
Spanish National Research Council, Madrid (Spain)
- C04 **Tools for Driving Assistance on Mobile Devices**
Alexandra Rivero-García, Candelaria Hernández-Goya, Iván Santos-González, Pino Caballero-Gil
University of La Laguna (Spain)
- C05 **Application of Multi-Agent Systems for Network and Information Protection**
Roumen Trifonov¹, Slavcho Manolov², Georgi Tsochev¹
¹ Technical University of Sofia (Bulgaria)
² Chairman of the Board and CEO of Association EDIBUL (Bulgaria)
- C06 **Secure Data Transfer in e-Health Care Service**
Irina Noninska
Technical University of Sofia (Bulgaria)

Ontology and Semantic Web

- C11 **Bilingual Ontologies for Teaching Programming in Java**
Tatyana Ivanova
CEE at Technical University of Sofia, Botevgrad (Bulgaria)

Section 'D': Intelligent Systems and Applications*Intelligent Systems and Knowledge-Based Applications*

- D01 **A JADE Based Emergency Heterogeneous Health Care System**
Sharmila Rathod
JJTU, Rajasthan (India)
- D02 **Induction of Rules from Fuzzy Time Series**
Vanya Markova
Institute for System Engineering and Robotics – BAS, Plovdiv (Bulgaria)
- D03 **An Approach to Build Fuzzy Cognitive Map for Time Series**
Vanya Markova, Ventseslav Shopov
Institute for System Engineering and Robotics – BAS, Plovdiv (Bulgaria)
- D04 **Preview of Agent Oriented Software Methodologies and Development Frameworks**
Ventseslav Shopov, Vanya Markova
Institute for System Engineering and Robotics – BAS, Plovdiv (Bulgaria)
- D05 **Impact of Robust Restimators on Machine Learning Performance**
Ventseslav Shopov
Institute for System Engineering and Robotics – BAS, Plovdiv (Bulgaria)

Section 'E': Technological Aspects of e-Governance and Data Protection*Technological Aspects of e-Governance***E04 Modelling and Management of Services in the Framework of the Service Oriented Architecture**Slavcho Manolov ¹, Roumen Trifonov ²¹ Chairman of the Board and CEO of Association EDIBUL (Bulgaria)² Technical University of Sofia (Bulgaria)*Technological Aspects of Data Protection***E05 The Work of the Spanish Data Protection Authority on Data Protection Impact Assessments***Emilio Aced Fález*

Agencia Española de Protección de Datos, Madrid (Spain)

E06 Digital Privacy in the Network World*Radi Romansky*

Technical University of Sofia (Bulgaria)

Section 'F': Technologies for System Design*Automation of System Design and Research***F04 Analyzing Opportunities for Optimizing the Energy Efficiency of Mobile Robots***Andrey Hinkov, Mladen Milushev, Filip Filipov*

Technical University of Sofia, Sofia (Bulgaria)

F05 Identification of Effective Doses in Binary Mixtures*Kaloyan Yankov*

Trakia University, Faculty of Technique and Technologies, Yambol (Bulgaria)

11:30– 12:15 (Hall 5)**Report Session***Chairpersons: Assoc. Prof. Malinka Ivanova, Ph.D. (Bulgaria)**Assoc. Prof. Anna Rozeva, Ph.D. (Bulgaria)***Section 'E': Technological Aspects of e-Governance and Data Protection***Technology for e-Governance (e-Democracy, e-Business, e-learning)***E01 Social Media in Government***Maria Nikolova*

New Bulgarian University, Sofia (Bulgaria)

E02 Educational and Social Implications from a Longitudinal WiFi Security Study (2002-2014)*Philip Tsang ¹, Ken Eustace ²*¹ Web Education Foundation (China), ² Charles Sturt University (Australia)**E03 IT Management Processes by Using Information Technologies Infrastructure Library (ITIL) and Decision Making***Yasen Mitev, Leoneed Kirilov*

Institute of ICT – BAS, Sofia (Bulgaria)

12:15 – 14:00	Break
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14:00 – 16:00 (Hall 5)	Report Session
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*Chairpersons: Assoc. Prof. Pavlinka Radoyska, Ph.D. (Bulgaria)
Assoc. Prof. Dimitar Tsanev, Ph.D. (Bulgaria)*

Section 'F': Technologies for System Design

Automation of System Design and Research

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- F01 **Automated IC Design in Cadence Virtuoso Using SKILL**
Goce Dokoski, Josif Kjosev, Katerina Raleva
"St. St. Cyril and Methodius" University, Skopje (Macedonia)
- F02 **Optimally Designed Energy Efficient Transformer Using Global Iterative Algorithms**
Mihail Digalovski, Krste Najdenkoski, Goran Rafajlovski
"St. St Cyril and Methodius" University, Skopje (Macedonia)
- F03 **A General Framework FPGA Remote Laboratory with LabView**
Nadezhda Spasova
Technical University of Sofia, CEE (Bulgaria)

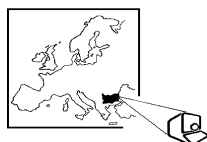
Testing, Diagnostic and System Reliability

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- F06 **XML Schema Based Generator of Test Data**
*Denitsa Manova¹, Dessislava Petrova-Antonova², Sylvia Ilieva²,
Ilna Manova¹*
¹Rila Solutions, ²Sofia University, Sofia (Bulgaria)

Power Systems, Automation and Control

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- F07 **Advanced Vector Control Techniques for Energy Efficiency Improvements**
Goran Rafajlovski, Krste Najdenkoski, Mihail Digalovski
University "Cyril and Methodius" Skopje, Faculty of Electrical Engineering and Information Technologies (Macedonia)
- F08 **Voltage Quality Issues and EN 50160 Standard (Case Study of the Distribution Grid in Macedonia)**
Goran Rafajlovski, Krste Najdenkoski, Mihail Digalovski
University "Cyril and Methodius" Skopje, Faculty of Electrical Engineering and Information Technologies (Macedonia)

16:00 (Hall 5)	Conference InfoTech-2014 Closing
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