

This is a preliminary version of the InfoTech-2016 Conference Program and some changes could be made. The participants will get the official Conference Program during the On-Site Registration.

International Conference InfoTech-2016
20th September 2016

13:30 – 15:00 (Hall 5)

Official Opening & Plenary Session

13:30-13:40

Conference Opening

Prof. Radi Romansky, D.Sc., Chairperson of the Organizing Committee (Bulgaria)

Section 'A': Plenary session (Invited Keynotes)

13:40-14:20

[A1] Proactive Management of Clouds, Based on Machine Learning Techniques

Prof. Dr. Dimitar R. Avresky

Int'l Research Institute for Autonomic Network Computing (USA/Germany)

14:20-15:00

[A2] Recent Evolution in Technology and Applications of Radio-Frequency Identification

Prof. Dr. Gerrit K. Janssens

Hasselt University, Faculty of Business Economics, Diepenbeek (Belgium)

15:00 – 15:30 (Foyer)

Group Photo & Coffee Discussion

15:30 – 16:30 (Hall 5)

Report Session

Chairpersons: Prof. Dimitar Avreski, Ph.D. (USA/Germany)
Prof. Gerrit Janssens, Ph.D. (Belgium)

Section 'B': Information Technologies

Software Technologies and Applied Systems

15:30-15:45

[B1] MOEAs' Applications in the Finance Area

Krasimira Stoyanova, Vassil Guliashki

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

15:45-16:00

[B2] A FIFO-PS Hybrid Algorithm for Portfolio Selection

Krasimira Stoyanova, Vassil Guliashki

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

16:00-16:15

[B3] Designing Didactic Materials for Simulating LTE Systems

Radosveta Sokullu, Önem Yildiz,

Ege University, İzmir (Turkey)

16:15-16:30

[B4] A Game based Approach to Teaching Computer Programming to Generation Z Students

Slavina Ivanova

University of Ruse (Bulgaria)

16:30 – 18:00 (Hall 5)

Report Session

Chairpersons: Assoc. Prof. Radoslav Yoshinov, Ph.D. (Bulgaria)

Assoc. Prof. Slavcho Manolov, Ph.D. (Bulgaria)

Database Management Systems and Information Systems

16:30-16:45

[B5] Ontology-based Data Integration Architecture

Tatyana Ivanova, Miroslav Popov

College of Energy and Electronics, Technical University-Sofia (Bulgaria)

16:45-17:00

[B6] Approaches for Integration of Data, Stored in Databases and Semantic Web

Miroslav Popov, Tatyana Ivanova

College of Energy and Electronics, Technical University-Sofia (Bulgaria)

17:00-17:05 (Poster Presentation with Brief Announcement)

[B7] The Set of Bulgarian Interoperability Registers as a Realization of the Concept of European XML Clearinghouse

Slavcho Manolov¹, Roumen Trifonov¹, Radoslav Yoshinov²

¹ Technical University of Sofia; ² Bulgarian Academy of Sciences, Sofia (Bulgaria)

Visualization, Virtual Reality and Social Media Applications

17:05-17:20

[B8] IT Realization of Project “GetYourFood”

Svetlin Youtov

SnSDevelop, Botevgrad (Bulgaria)

17:20-17:35

[B9] A Research of Responsive Web Design Techniques and Improvement Responsive Design Methodology

Elena Parvanova

College of Energy & Electronics at Technical University of Sofia (Bulgaria)

17:35-17:50

[B10] Suspicious Account in Social Media

Sofoklis Christoforidis¹, Georgios Christoforidis², Anastasia Miltsakaki³, Platon Georgakis¹, Ifigenia Triantafilou²

¹ TEI EMT Kavala; ² PhD/MSc student in TU-Sofia; ³ University of Crete (Greece)

17:50-17:55 (Poster Presentation with Brief Announcement)

[B11] Graph Portioning Methods in Social Network Analysis

Vanya Markova, Ventseslav Shopov

Institute of SER-BAS (Bulgaria)

20:00 – 23:00

Official Conference Diner

International Conference InfoTech-2016
21st September 2016

09:00 – 10:30 (Hall 5)

Report Session

Chairpersons: *Assoc. Prof. Dimitar Tsanev, Ph.D. (Bulgaria)*
Assoc. Prof. Roumen Trifonov, Ph.D. (Bulgaria)

Section 'B': Information Technologies

ERP Systems, Business Intelligence and Computational Social Science

09:00-09:05 (**Poster Presentation with Brief Announcement**)

[B12] Supply Chain Excellence in Inter-Company Value Chains

Andreas Pescholl

Haustechnik Handels-GmbH, Treuen (Germany)

09:05-09:20

[B13] Heuristics and Metaheuristics for Single and Multi-objective Flexible Job Shop Scheduling Problems

Asen Tochev

Institute of ICT – BAS, Sofia (Bulgaria)

09:20-09:30

[B14] Electoral Systems and Factors for Voting Results Distortion

Iliya Goranov, Vassil Guliashki

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

Section 'C': Information Security

Security Policy, Methods and Tools

09:30-09:45

[C1] A Security Model Based on Multi Agent Systems

Georgi Tsochev, Roumen Trifonov, Georgi Popov

Technical University of Sofia (Bulgaria)

09:45-10:15

[C2] Logical Model for Eavesdropping on Quantum Encrypted Communication

Nikolay Raychev

Varna University of Management, Varna (Bulgaria)

[C3] Practical Levels of the Efficiency, Security and Reliability of the Quantum Cryptographic Communication

Nikolay Raychev

Varna University of Management, Varna (Bulgaria)

[C4] Protocol for Stream Quantum Obfuscation (PSQO)

Nikolay Raychev

Varna University of Management, Varna (Bulgaria)

10:15-10:30

[C5] Security Investigation of WEB Application: Challenge and Defense Techniques

Elior Vila, Inesa Mancini

University "A Xhuvani" of Elbasan (Albania)

10:30 – 11:00 (Foyer)

Poster Session and Coffee Discussion

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

Section 'C': Information Security

[C6] Some Security Issues of the Governmental Cloud

Roumen Trifonov¹, Slavcho Manolov¹, Radoslav Yoshinov²

¹ Technical University of Sofia; ² Bulgarian Academy of Sciences, Sofia (Bulgaria)

Section 'D': Networking and Distributed Technologies

[D5] Comparison: IPSEC and SSL

Georgi Tsochev¹, Roumen Trifonov¹, Radoslav Yoshonov²

¹ Technical University of Sofia (Bulgaria)

² Director of Telematics Laboratory at Bulgarian Academy of Sciences (Bulgaria)

[D6] Saving Energy by Choosing Fast the Best Server in Cloud Data Centers

Elinda Meçe Kajo, Avjol Sakaj, Alban Afmeti, Igli Tafa

Polytechnic University of Tirana (Albania)

[D7] Fault Intrusion Tolerance in Cloud Computing

Vladi Koliçi, Pandi Stefo, Igli Tafa

Polytechnic University of Tirana (Albania)

Section 'E': Intelligent Systems and Applications

Intelligent and Agent Systems

[E4] Evolutionary Approach for Solving Dynamic Graph Problems

Ventseslav Shopov, Vanya Markova

Institute of SER-BAS (Bulgaria)

[E5] Autonomous Agents Resource Sharing and Collaboration

Vanya Markova, Ventseslav Shopov

Institute of SER-BAS (Bulgaria)

[E6] Comparison of Random Graph Generators

Vanya Markova, Ventseslav Shopov

Institute of SER-BAS (Bulgaria)

Intelligent Transport Systems

[E7] A Mobile Platform System to Driving Assistance

Francisco Martin-Fernandez, Pino Caballero-Gil, Candido Caballero-Gil

University of La Laguna, Santa Cruz de Tenerife (Spain)

[E8] Decentralized Control of Intralogistics Order Picking Systems with CAN

Andrei Hinkov, Mladen Milushev

Technical University of Sofia (Bulgaria)

Section 'F': Technologies for System Design

[F1] Programming Control for Accurate Dosage System of Liquids

Neli Grancharova, Rosen Spirov

Technical University – Varna (Bulgaria)

[F2] Inertial Parameters of the Robot Mover 4

Kaloyan Yankov

Faculty of Technics and Technologies, Trakia University (Bulgaria)

11:00 – 12:45 (Hall 5)**Report Session**

Chairpersons: Assoc. Prof. Igli Tafa, Ph.D. (Albania)
 Assoc. Prof. Seferin Mirchev, D.Sc. (Bulgaria)

Section 'D': Networking and Distributed Technologies

11:00-11:15

[D1] IP Network Link Capacity Evaluation at the Packet Level by Pareto/BM/1/u Queue

Seferin Mirchev, Rositsa Goleva, Dimitar Atamian
 Technical University of Sofia (Bulgaria)

11:15-11:30

[D2] An Approach for Hardening of Network Infrastructure

Elior Vila, Harri Rrapaj
 University "A Xhuvani" of Elbasan (Albania)

11:30-11:45

[D3] Web Distributed Computing for Evolutionary Training of Artificial Neural Networks

Todor Balabanov, Delyan Keremedchiev, Ilia Goranov
 Institute for ICT – BAS, Sofia (Bulgaria)

11:45-12:00

[D4] Impacts of Pre-copy and Post-copy Live Migration in XEN

Igli Tafa, Paola Kotta, Flavia Radomi, Ilir Çela
 Polytechnic University of Tirana (Albania)

Section 'E': Intelligent Systems and Applications

Intelligent and Agent Systems

12:00-12:15

[E1] Architecture of Six-Legged Robot for Simulation of Movement under Partial Loss of Leg Mobility

Roumen Trifonov, Galya Pavlova, Ilian Pavlov
 Technical University of Sofia (Bulgaria)

12:15-12:30

[E2] Intention Inference for Intuitive Human-Robot Interface

Svetlin Penkov, Subramanian Ramamoorthy
 The University of Edinburgh (United Kingdom)

12:30-12:45

[E3] Neural Networks and the Economic Crisis in Greece: A Survey of the Bankruptcy for Companies in Greece

Sofoklis Christoforidis¹, Dimitrios Thomopoulos², Eleni Karamanidou¹, Dimitris Karamanidis¹, Despoina Koumpati³

¹ TEI EMT Kavala; ² MSc student in TU-Sofia; ³ AUTH Thessaloniki (Greece)

12:45 – 14:00**Lunch Break**

14:00 – 15:15 (Hall 5)

Report Session

Chairpersons: Prof. Vangel Fustik, Ph.D. (Macedonia)
 Assoc. Prof. Sofoclis Christoforidis, Ph.D. (Greece)

Section 'F': Technologies for System Design

14:00-14:15

[F3] IT project “Math is Fun, Drone is Fun”

Krasimir Bozhinov, Martin Banov, Vladimir Stamenov

Math and Science School “Prof Dr Assen Zlatarov”, Botevgrad (Bulgaria)

14:15-14:30

[F4] Financial Sensitivity Analysis of the Hydro Power Projects on CRN DRIM River

Goce Bozinovski¹, Atanas Iliev²

¹ AD ELEM Skopje/HES Crn Drim-Struga; ² UKIM Skopje – EIT (Macedonia)

14:30-14:45

[F5] Intelligent Techniques Applied in the Control of Micro Grids Energy Systems.

Georgios Christoforidis

PhD student in TU-Sofia (Greece)

14:45-15:00

[F6] Is the Multi-agent System Suitable for Controlling the Energy Micro Grids? A Case Study on Greek Islands

Georgios Christoforidis¹, Sofoklis Christoforidis², Stefanos Gumas², Dimosthenis Pappas², Panagiotis Kogias²

¹ PhD student TU-Sofia; ² TEI EMT Kavala (Greece)

15:00-15:15

[F7] Service Oriented Architecture Framework for Power System Management

Nevenka Kiteva-Rogleva, Vangel Fustik

Faculty of Electrical Engineering and IT, Skopje (Macedonia)

15:15 – 15:45 (Foyer)

Poster Presentation and Coffee Discussion

Chairpersons: Prof. Tinatin Mshvidobadze, D.Sc. (Georgia)
 Assoc. Prof. Rumen Trifonov, Ph.D. (Bulgaria)

Section 'F': Technologies for System Design

[F8] Application Software to Solving of Optimization Tasks in Chemical Engineering

D. Nikolova, Y. Dzhelil, D. Dobrudzhaliev, Burgas University (Bulgaria)

Section 'G': Technological Aspects of e-Governance and Privacy

[G1] E-Government and Web Services for e-Municipality

Tinatin Mshvidobadze, Sopio Mshvidobadze

Gori University (Georgia)

[G2] Methodology of Measuring and Assessment of e-Government, Indicators and Indexes for Examination and Evaluation

Roumen Trifonov, Boyan Jekov, Petya Mihaylova

Technical University of Sofia (Bulgaria)

[G3] Big Data and Individuals' Privacy

Emilio Aced Fález

Spanish Data Protection Agency, Madrid (Spain)

15:45 – 17:15 (Hall 5)

Report Session

Chairpersons: *Prof. Tinatin Mshvidobadze, D.Sc. (Georgia)*
Assoc. Prof. Rumen Trifonov, Ph.D. (Bulgaria)

Section 'G': Technological Aspects of e-Governance and Privacy

15:45-16:00

[G4] Open Data Technologies in e-Government – Adopting and Application

Maria Nikolova

New Bulgarian University, Sofia (Bulgaria)

16:00-16:15

[G5] Evaluation the Knowledge in eLearning Systems

Sofoklis Christoforidis¹, Naoum Zilas², Vasiliki Georgaki², Anna Thysiadou¹, Stefanos Gumas¹

¹ TEI EMT Kavala; ² MSc student in TU-Sofia (Greece / Scotland)

16:15-16:30

[G6] Generate Test Based in Multi-Agent Systems for eLearning Systems

Sofoklis Christoforidis¹, Naoum Zilas², Georgios Christoforidis², Vasiliki Georgaki²

¹ TEI EMT Kavala; ² MSc/PhD student in TU-Sofia (Greece / Scotland)

16:30-16:45

[G7] Quality Assessment of Open and Linked Data

Roumen Trifonov, Boyan Jekov, Petya Mihaylova

Technical University of Sofia (Bulgaria)

16:45-17:00

[G8] Distributed Systems and the Citizen Health Record Based on HL7

Sofoklis Christoforidis¹, Naoum Zilas², Vasiliki Georgaki², Georgios Christoforidis², Michael Miltsakakis², Dimitrios Thomopoulos², Athanasios Thomopoulos², Stefanos Gumas¹

¹ TEI EMT Kavala; ² MSc / PhD student in TU-Sofia (Greece / Scotland)

17:00-17:15

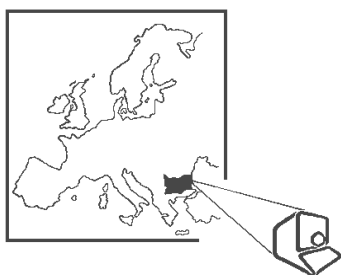
[G9] Preparation and Presentation the Medical Information Based on User Profile

Sofoklis Christoforidis¹, Georgios Christoforidis², Naoum Zilas², Vasiliki Georgaki², Vasiliki Georgiadou¹

¹ TEI EMT Kavala; ² MSc / PhD student in TU-Sofia (Greece / Scotland)

17:15 (Hall 5)

Conference InfoTech-2016 Closing



30th Anniversary
of the Conference
InfoTech-2016