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**APPLICATION  
OF INFORMATION  
AND COMMUNICATION  
TECHNOLOGIES - AICT2016**

*10<sup>th</sup> IEEE International Conference on*  
**APPLICATION of INFORMATION and  
COMMUNICATION TECHNOLOGIES**

# **CONFERENCE PROGRAM**

*12-14 October 2016, Baku, Azerbaijan*  
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## PROGRAM AT A GLANCE

### 12 October 2016

Location: QAFQAZ UNIVERSITY (QU), Main Building  
Address: H.Aliyev str., 120, Khirdalan

08:30 – 17:00 Events at the Main Building (QU)

08:30 – 10:00	Registration
10:00 – 10:40	Welcoming and Opening Ceremony
10:40 – 11:40	Keynote Session
11:40 – 12:00	Coffee Break
12:00 – 13:00	Keynote Session (continue)
13:00 – 13:10	Group photo of all participants (location: Main Hall)
13:10 – 14:00	Lunch
14:00 – 15:00	Tutorial Session
15:00 – 15:30	Coffee Break
15:30 – 16:30	Tutorial Session
16:30 –	Sightseeing City Tour

### 13 October 2016

Location: BAKU STATE UNIVERSITY (BSU)  
Address: Academic Z. Khalilov str., 23, Baku /  
AZERBAIJAN TECHNICAL UNIVERSITY (AzTU)  
Address: H.Javid ave 25, Baku

09:30 – 17:30 Events at the BSU New Building

11:30 – 17:30 Events at the AzTU

09:30 – 10:00	Registration (for authors)
10:00 – 11:00	Keynote Mini Session
11:00 – 11:30	Coffee Break
11:30 – 13:30	Concurrent Technical Sessions (location: Baku State University / Azerbaijan Technical University)
13:30 – 14:30	Lunch
14:30 – 17:30	Concurrent Technical Sessions
15:30 – 16:00	Coffee Break
17:40 – 19:30	City Sightseeing Tour – Sumgait (by invitation)
19:30	Banquet Dinner (by invitation)

### 14 October 2016

**Location: INSTITUTE OF INFORMATION TECHNOLOGY  
OF ANAS  
Address: B.Vahabzade str.9**

<b>10:00 – 11:40</b>	<b>Welcome / Keynote / Tutorial Session</b>
<b>11:40 – 12:00</b>	<b>Coffee Break</b>
<b>12:00 – 15:30</b>	<b>Concurrent Technical Sessions</b>
<b>13:30 – 14:20</b>	<b>Lunch</b>
<b>15:30 – 16:00</b>	<b>Closing Ceremony</b>
<b>16:00</b>	<b>Social Program</b>

*AICT2016 International Conference*



OCTOBER, 2016

*Location:*  
**QAFQAZ UNIVERSITY**



## 12 October 2016

Location: QAFQAZ UNIVERSITY (QU), Main Building

Address: H.Aliyev str., 120, Khirdalan

08:30–10:00 | Registration

09:30–13:00 | Exposition: Introduction to IEEE Publications (location: Registration Area)

10:00–10:30  
Hall: Main

### WELCOMING AND OPENING CEREMONY

**Assoc.Prof. Abzetskun Adamov,**  
*AICT2016 General Chair / IEEE Azerbaijan Joint Chapter*

**Professor Havar Mamedov,**  
*Rector of Qafqaz University, Azerbaijan*

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**Professor Mohn Harun Abdullah,**  
*University Malaysia Sabah Vice-Chancellor, Malaysia*

**Professor Rasim Aliguliyev,**  
*Institute of Information Technologies of ANAS Director, Azerbaijan*

**Professor Khalig Yahudov,**  
*Azerbaijan Technical University Rector, Azerbaijan*

**Professor Telman Aliyev,**  
*Institute of Control Systems of ANAS Director, Azerbaijan*

10:30–10:40  
Hall: Main

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**Mr. Khayyam Hasanli,**  
*Chief Technology and Information Officer, Azerfon LLC (Nar), Azerbaijan*

**Dr. Gennady Smorodin,**  
*DELL EMC Corporation, Russia*

**10:40–11:40**  
**Hall: Main**

**KEYNOTE SESSION**

**10:40-11:10**

**Speaker:** **Professor Michele Luglio**  
*University of Rome Tor Vergata Italy / Telecom, Italy*  
**Title:** IP Platforms and Satellite Networks as a booster for Smart City Capabilities

**11:10-11:40**

**Speaker:** **Jana Krimpe**  
*Founder, BEST Solutions / Chair of Azerbaijani Mobile ID Consortium*  
**Title:** Mobile ID (Asan Imza) - Your Mobile Passport in the New Generation Government.

**11:40–12:00**

**Coffee Break**

**12:00–13:00**

**Keynote Session (continue):**

**12:00-12:30**

**Speaker:** **Professor Manzoor Soomro**  
*President of ECO Science Foundation (ECOSF), Pakistan*  
**Title:** ECO Science Foundation – A Catalyst for Promotion of STI in ECO Region

**12:30-13:00**

**Speaker:** **Professor Alexander Khoroshilov, Dr. Natalia Amelina**  
*UNESCO IITE, Russia*  
**Title:** Promotion of Equitable Access to Education for all by means of ICT: UNESCO IITE activities

**13:00–13:10**

**Group photo (location: Main Hall and Front of Rectorate)**

**13:10–14:00**

**Lunch**

## AFTERNOON – 12 October 2016

Location: QAFQAZ UNIVERSITY (QU)

14:00–15:00  
Hall: Main

### TUTORIAL SESSION

**Speaker:** Assoc.Prof. Alexander Dyumin

*Senior Analyst JSC SberTech /  
Moscow National Research Nuclear University,*

**Title:** Data Science and Big Data Analytics

15:00–15:30 Coffee Break

15:30–16:30  
Hall: Main

### TUTORIAL SESSION

**Speaker:** Victor Dashonok

*EMC-certified Expert / St.Petersburg State Transport  
University, Russia*

**Title:** Information Storage and Management.

16:30 Sightseeng City Tour

*AICT2016 International Conference*



*OCTOBER, 2016*

*Locations:*

**BAKU STATE UNIVERSITY /  
AZERBAIJAN TECHNICAL UNIVERSITY**

## 13 October 2016

Location: BAKU STATE UNIVERSITY (BSU)  
AZERBAIJAN TECHNICAL UNIVERSITY (AzTU)

09:30 – 17:30 Events at the BSU New Building

11:30 – 17:30 Events at the AzTU

09:30–10:00 Registration

10:00–10:30 KEYNOTE MINI SESSION

Hall A **Speaker:** Dr. Gerald Schaefer,  
*Department of Computer Science, Loughborough  
University, U.K.*  
**Title:** Interactive Exploration of Large Image Collections.

10:30–11:00 KEYNOTE MINI SESSION

Hall A **Speaker:** Professor Eshref Adali  
*Founding dean of Computer Engineering and  
Informatics Faculty,  
Istanbul Technical University, Turkey*  
**Title:** Sentiment Analysis and Opinion Mining.

11:00–11:30 Coffee Break

11:30–17:00 CONCURRENT TECHNICAL SESSIONS

Locations: BAKU STATE UNIVERSITY

**SESSION 1**  
**BIG DATA MANAGEMENT AND APPLICATION**

**Session Co-Chairs:**

**Time: 11:30–17:30**

**Hall: A**

**Location: BAKU STATE UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. Big Data Integration Architectural Concepts for Oil and Gas Industry**  
*by Rasim M. Alguliyev, Ramiz M. Aliguliyev, Makrufa S. Hajirahimova, Institute of Information Technology of ANAS, Azerbaijan.*

**2. Text Big Data Analytics: exploring API opportunity**  
*by Olga Kolesnichenko, Yuriy Kolesnichenko, Security Analysis Bulletin, Russia; Gennady Smorodin, EMC Academic Alliance Russia & CIS, Russia; Dariya Yakovleva, Lev Mazelis, Vladivostok State University of Economics and Service, Russia; Oleg Zhurenkov, Altai Academy of Economics and Law, Russia.*

**3. Big Data: Potential and Indicators**  
*by Makrufa S. Hajirahimova, Aybeniz S. Aliyeva, Institute of Information Technology of ANAS, Azerbaijan; Goychak F. Mahmudlu, Qafqaz University, Azerbaijan.*

**4. Fatigue Test Optimization for Complex Technical System on The Basis of Lifecycle Modeling and Big Data Concept**  
*by Natalya Kondratyeva, Sagit Valeev, Ufa State Aviation Technical University, Russia.*

**5. Batch Clustering Algorithm for Big Data Sets**  
*by Rasim Alguliyev, Ramiz Aliguliyev, Rafael Karimov, Institute of Information Technology of ANAS, Azerbaijan; Adil Bagirov, Federation University Australia, Australia.*

**6. Parallelizing Shortest Path Algorithm for Time Dependent Graphs with Flow Speed Model**  
*by Mehmet Akif Ersoy, Can Ozturan, Bogazici University, Turkey.*

**7. Investigation of Algorithms and Models of Optimization of Cloud Applications and Services in Virtual Infrastructure of Data Center**  
*by Irina Bolodurina, Denis Parfenov, Orenburg State University, Russia.*

**8. Determination of Loss of Information During Data Anonymization Procedure**

by *Alexey Pervushin, Viktoria Ermachkova, Anton Spivak, ITMO University, Russia.*

**9. Architecture and security tools in distributed information systems with Big Data**

by *Rinat Pavlikov, Roza Beisembekova, Kazakh national research technical university named after K.I. Satpayev, Kazakhstan.*

**10. Distributed Information and Control System for Emergencies in Critical Infrastructures**

by *Sagit Valeev, Natalya Kondratyeva, Ufa State Aviation Technical University, Russia.*

**11. Large Scale System Management Based on Markov Decision Process and Big Data Concept**

by *Sagit Valeev, Natalya Kondratyeva, Ufa State Aviation Technical University, Russia.*

**12. The Case Study Approach to Learning Text Mining**

by *Yerzhan Baiburin, Zheniskul Zhantassova, S. Amanzholov East Kazakhstan State University, Kazakhstan; Aliya Nugumanova, Aigul Syzdykpayeva, D. Serikbayev East Kazakhstan State Technical University, Kazakhstan; Igor Bessmertny, University of ITMO, Russia.*

**13. Character-based Feature Extraction with LSTM Networks for POS-tagging Task**

by *Zhandos Yessenbayev, Aibek Makazhanov, National Laboratory Astana, Kazakhstan.*

**14. Smart Living Home for Elderly People using Wireless Sensor Networks on Android Application**

by *Kashif Nisar, Universiti Malaysia Sabah Kota Kinabalu, Malaysia, McMaster University Hamilton, Canada; Ag. Asri Ag. Ibrahim, Universiti Malaysia Sabah Kota Kinabalu, Malaysia; Lifen Wu, Jinzhong University, China; Abzaidin Adamov, Applied Research Center CeDAWI, Qafqaz University, Azerbaijan; M. Jamal Deen, McMaster University Hamilton, Canada.*

**15. Statistical Data Analysis for Network Infrastructure Monitoring to Recognize Aberrant Behavior of System Local Segments**

by *Mikhail Sukhoparov, Alexander Davydov, Ilya Lebedev, Nurzhan Bazhayev, Saint-Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO University), Russia.*

**16. Approaches for Interactive Browsing of Large Image Datasets**

by *Gerald Schaefer, Loughborough University, U.K.*

**SESSION 2.1**  
**DATA MINING AND DATA ENGINEERING**

**Session Co-Chairs:**

**Time: 11:30–17:30**

**Hall: B**

**Location: BAKU STATE UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. Evaluation of Machine Translation Output in Context of Inflectional Languages**

*by Daša Munková, Jozef Kapusta, Michal Munk, Jaroslav Reichel, Constantine the Philosopher University in Nitra, Slovakia.*

**2. Math modeling of passenger traffic in the monorail transport system**

*by Antonova V.M., Kuznetsov N.A., The Kotel'nikov Institute of Radio-engineering and Electronics of Russian Academy of Sciences, Russia; Volkov D.O., "GMK Innovations" LLC, Russia; Starostenko A. M., Moscow Institute of Physics and Technologies, Russia.*

**3. Behavior Analysis and Event Detection with Statistics of News Release on Insurgent Website**

*by Min Tang, Duoyong Sun, National University of Defense Technology, China.*

**4. Link Grammar Parser for Turkic Languages and algorithms for estimation the relevance of documents**

*by Batura Tatiana Victorovna, Murzin Feodor Alexandrovich, Bakiyeva Aigerim Muratovna, Novosibirsk State University, Russia; Tazhibayeva Saule Zhaksylykbayevna, Yerimbetova Aigerim Sembekovna, Sagnayeva Saule Kairolliyevna, L.N. Gumilyov Eurasian National University, Kazakhstan.*

**5. Speech Recognition using Support Vector Machines**

*by Kamil Aida-zade, Institute of Control Systems of ANAS, Azerbaijan; Anar Xocayev, Qafqaz University, Azerbaijan; Samir Rustamov, ADA University, Institute of Control Systems of ANAS, Azerbaijan.*

**6. On a Mathematical Model of the Generalized Sequential Partially Covering Problem**

*by Fidan Nuriyeva, Dokuz Eylul University, Turkey, Institute of Control Systems of ANAS, Azerbaijan.*

**7. An Object-Oriented Model of Case-Based Reasoning System Using Situations Tree**

*by Ruslan K. Akhmadulin, Tyumen Industrial University, Russia; Igor N. Gluhih, Ivan Y. Karyakin, Tyumen State University, Russia.*



**8. Comparative analysis of feature selection algorithms in construction of fuzzy classifiers**

*by I.V. Gorbunov, S.R. Subhankulova, I. A. Hodashinsky, A. E. Yankovskaya, Tomsk State University of Control Systems and Radioelectronics, Russia.*

**9. Ordered Multidimensional Model Construction of Relational Source for Integral OLAP-modeling**

*by Anna Korobko, Ludmila Nozhenkova, Institute of Computational Modelling of SB RAS Name, Russia.*

**10. Information's semantic search, classification, structuring and integration objectives in the knowledge management context problems**

*by Yury Kravchenko, Elmar Kuliev, Ilona Kursitys, Southern federal university, Russia.*

**11. Multi-objective particle swarm optimization for ontology alignment**

*by Semenova A.V, Kureychik V.M., Southern Federal University, Russia.*

**12. Evaluation of Fuzzy Petri nets with the tool TransPlaceSim**

*by Michal Kuchárik, Zoltán Balogh, Constantine the Philosopher University in Nitra, Slovakia.*

**13. Application of data mining technology to optimize the city transport network**

*by Irina Makarova, Rifat Khabibullin, Vadim Mavrin, Danila Tikhonov, Denis Davletshin, Ksenia Shubenkova, Kazan Federal University, Russia.*

**14. Events Analysis Based on Internet Information Retrieval and Process Mining Tools**

*by Irina Shalyaeva, Lyudmila Lyadova, Viacheslav Lanin, National Research University Higher School of Economics, Russia.*

**15. Approach to Defining the Maximum Amount of Flow in Dynamic Fuzzy Network with the Given Vitality Degree**

*by Bozhenyuk Alexander, Gerasimenko Evgeniya, Southern Federal University, Russia; Igor Rozenberg, Public corporation "Research and development institute of railway engineers", Russia.*

**16. Road Condition Analysis Using 3-axis Accelerometer and GPS Sensors**

*by B. Y. Amirgaliyev, K. K. Kuvatov, Z. Y. Baibatyr, International Information Technologies University, Kazakhstan.*

**17. Sentiment Analysis for Agglutinative Languages**

*by Eshref Adali, Istanbul Technical University, Turkey; Abzetdin Z. Adamov, Applied Research Center CeDAWI, Qafqaz University, Azerbaijan.*

**SESSION 3  
CYBER SECURITY ISSUES**

**Session Co-Chairs:**

**Time: 11:30–17:30**

**Hall: C**

**Location: BAKU STATE UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. Mobile ID – crucial element of m-Government in the Republic of Azerbaijan**

*by Jana Krimpe, B.EST Solutions LLC, Azerbaijan.*

**2. Carrier-Grade NAT - Is It Really Secure for Customers? A Test on a Turkish Service Provider**

*by Kevser Ovaz Akpınar, Mustafa Akpınar, Ibrahim Ozcelik, Nejat Yumusak, University of Sakarya, Turkey.*

**3. New Approach to Software Code Diversification in Interpreted Languages Based On The Moving Target Technology**

*by Mikhail Styugin, Vyacheslav Zolotarev, Anton Prokhorov, Siberian State Aerospace University, Russia; Roman Gorbil, Siberian Federal University, Russia.*

**4. A New Approach to Detecting and Preventing the Worm Hole Attacks for Secure Routing in Mobile Ad-hoc Networks based on the SPR Protocol**

*by Seyed Ali Sharifi, Seyed Morteza Babamir, University of Kashan, Iran.*

**5. A Cryptography Approach on Security Layer of Web Service**

*by Arezoo Mirtalebi, Seyed Morteza Babamir, University of Kashan, Iran.*

**6. A light weight dynamic attribute based access control module integrated with business rules**

*by Vali Tawosi, Tarbiat Modares University, Iran.*

**7. The ways assessment of information security in organizations**

*by Ganiev Abdukhalil Abduljalilovich, Yusupov Sabirjan Yusupdjanovich, Gulomov Sherzod Rajaboevich, Tashkent University of information technologies, Uzbekistan.*

**8. Privacy Protection in Nigerian E-Government Systems**

*by David Alade, Sergey Butakov, Pavol Zavorsky, Concordia University of Edmonton, Canada.*

**9. Extension of access control policy in secure rolebased workflow model**

*by Ivan Tarkhanov, State Academic University for Humanities, Federal Research Center "Computer Science and Control" of Russian Academy of Sciences, Russia.*

**10. Results of implementing WPA2-Enterprise in Educational Institution**

*by Konstantin Yanson, ITMO University, Russia.*

**11. Analyzing Vulnerability Databases**

*by Rashad Aliyev, Khazar University, Azerbaijan; Lourdes Peñalver, Universitat Politècnica de València, Spain.*

**SESSION 4.1**  
**LATEST TRENDS IN ICT APPLICATION**

**Session Co-Chairs:**

**Time: 11:30–17:30**

**Hall: D**

**Location: BAKU STATE UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. Beacon AuthPath**

*by Emin Huseynov, Jean-Marc Seigneur, University of Geneva, Switzerland.*

**2. Improving Collaborative Recommender Systems via Emotional Features**

*by Soghra Lazemi, Hossein Ebrahimpour-komleh, The University of Kashan, Iran.*

**3. Information interaction of decentralized group control of unmanned vehicles**

*by S V Tikhonov, R T Sirazetdinov, N R Surkin, Federal State Government-Funded Educational Institution of Higher Professional Education Kazan National Research Technical University named after A. N. Tupolev – KAI, Russia.*

**4. Research on the Structural Characteristic of Global Terrorist Organization Cooperation Network**

*by Zihan Lin, Duoyong Sun, Min Tang, National University of Defense Technology, China.*

**5. Multilanguage natural user interface to database**

*by Ruslan Posevkin, Igor Bessmertny, ITMO University, Russia.*

**6. Use of Integrated Technologies for Fire Monitoring and First Alert**

*by A. D'Ambrogio, P. Gaudio, M. Gelfusa, M. Luglio, A. Malizia, C. Roseti, F. Zampognaro, Università degli studi di Roma Tor Vergata, Italy; A. Giglio, A. Pieroni, Università degli studi Guglielmo Marconi, Italy; S. Marsella, Corpo Nazionale dei Vigili del Fuoco, Italy.*

**7. Using Model-Based Methods for Embedded Software Development**

*by S.Jalilian, T.Boroumandnejad, Satellite Research Institute, Iranian Space Research Center, Iran; Kazimov Tofiq H., Institute of information technology of ANAS, Azerbaijan.*

**8. Interface for Interaction of GIS Technology for Electronic Master Plan Management and Third-Party Software Systems**

by Pavel V. Senchenko, Yury B. Gritsenko, Oleg I. Zhukovsky, Yury P. Ekhlakov,  
Tomsk State University of Control Systems and Radioelectronics, Russia.

**9. A FC<sup>2</sup>TA Model for Congestion Management in Confidence AODV Protocol**

by Rahim Rashidi, Farugh Katani, Saeid Usefpour, Faroogh Ashkooti, Islamic Azad University, Iran.

**10. Using of multi-agent system to model a process of maintenance service and repair of equipment of a service company**

by Vladislav V. Pantelev, Alexey V. Kizim, Valery A. Kamaev, Anna V. Matokhina, Volgograd State Technical University, Russia.

**11. The subject-oriented notation for end-user data modelling**

by Sergey Kucherov, Yuri Rogozov and Alexander Svirido, Southern Federal University, Russia.

**12. Application of Neural Network for Digital Recursive Filter Design**

by Naila Allakhverdiyeva, Baku Higher Oil School, Azerbaijan.

**13. Computer Modelling of Spatial and Electronic Structures of the Complex of PEG4 with KCl**

by I.N. Alieva, Z.I. Hajiyevev, S.D. Demukhamedova, Baku State University, Azerbaijan; N.M. Gojayev, Qafqaz University, Azerbaijan.

**14. Performance Analysis of e-Archive Invoice Processing on Different Embedded Platforms**

by Salih Bayar, Idea Teknoloji Cozumleri, Turkey.

**15. Analysis of bioclimatic structure of animals' habitats on the base of the heat balance simulation**

by Vladimir Mikhailov, Saint Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences, Russia; Konstantin Klokov, Saint Petersburg State University, Russia; Anna Pestereva, Aerial Services, Inc., USA.

11:30–17:00

**CONCURRENT TECHNICAL SESSIONS**

**Locations: AZERBAIJAN TECHNICAL UNIVERSITY**

**SESSION 5.1  
COMMUNICATION, NETWORK AND HARDWARE**

**Session Co-Chairs:**

**Time: 11:30–17:30**

**Hall: A**

**Location: AZERBAIJAN TECHNICAL UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. Optimum Power Allocation for Non-Orthogonal Multiple Access (NOMA)**

*by Talgat Manglayev, Refik Caglar Kizilirmak, Yau Hee Kho, Nazarbayev University, Kazakhstan.*

**2. Anomaly detection in network traffic using extreme learning machine**

*by Yadigar Imamverdiyev, Lyudmila Sukhostat, Institute of Information Technology of ANAS, Azerbaijan.*

**3. The Technology for the Automatic Formation of the Personal Digital Voice Pattern**

*by R.R. Mussabayev, Ye. N. Amirgaliyev, Institute of Information and Computational Technologies, Kazakhstan; A.T.Tairova, T.R.Mussabayev, K.Ch. Koibagarov, Uniline Group LLP, Kazakhstan.*

**4. Diagrammatic models processing in designing the complex automated systems**

*by A.N. Afanasyev, N.N. Voit, Ulyanovsk state technical university, Russia; R.F. Gainullin, Ltd «Ecwid», Russia.*

**5. Implementing Cycling Training Application for Mobile Devices**

*by Andrey Bogdanchikov, Rassim Suliyeu, Bekzhan Bolatov, Suleyman Demirel University, Kazakhstan.*

**6. The Usage of the Mobile Ad-Hoc Networks in the Construction Industry**

*by Igor Konstantinov, Kostiantyn Polshchikov, Sergej Lazarev, Olha Polshchikova, Belgorod State University, Russia.*

**7. Improving Emergency Management DSS through the CAP Protocol**  
*by Stefano Marsella, Marcello Marzoli, Ministry of the Interiors - National Fire Service, Italy.*

**8. The Effect of the Device Mismatch on Parameters of GaN MMIC phase shifters**  
*by Aleksandr Timoshenko, Egor Belousov, Ksenia Molenkamp, Alexander Bakhtin, National Research University of Electronic Technology (MIET), Russia.*

**9. The Model of Management Access to The Resources of The Closed Discretionary Information Computation Environment in The Form of Corporate Portal Network**  
*by Igor S. Konstantinov, Sergej A. Lazarev, Oleg V. Mihalev, Vladimir E. Kiselev, Belgorod State University, Russia; Alexander V. Demidov, Orel State University, Russia.*

**10. Neuroevolution: problems, algorithms, and experiments**  
*by Sergey Rodzin, Olga Rodzina, Lada Rodzina, Southern Federal University, Russia.*

**11. Figuratively-Semantic Support in Precedent-Oriented Solving the Project Tasks**  
*by Petr Sosnin, Ulyanovsk State Technical University, Russia.*

**12. Informational and Control System Configuration Generation Problem with Load-Balancing Optimization**  
*by E.V. Melnik, Southern Scientific Center of the Russian Academy of Sciences, Russia; A.B. Klimenko, Southern Federal University, Russia.*

**13. A Better Heuristic for the Minimum Connected Dominating Set in Ad Hoc Networks**  
*by Onur Ugurlu, Deniz Tanir, Elnur Nuri, Ege University, Turkey.*

**14. The crosstalk compensator for fiber-optic data transmission systems with division multiplexing**  
*by Dmitry Kiesewetter, Victor Malyugin, Peter the Great Saint Petersburg Polytechnic University, Russia.*

**15. A Distributed Particle Filter for Acoustic Target Tracking in Wireless Sensor Networks**  
*by Farooq Ashkooti, Rahim Rashidy, Islamic Azad University, Iran.*

**SESSION 6**  
**ICT IN GOVERNANCE, BUSINESS ADMINISTRATION, FINANCE**  
**AND ECONOMY**

**Session Co-Chairs:**

**Time: 11:30–17:30**

**Hall: B**

**Location: AZERBAIJAN TECHNICAL UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. Static Model of Equilibrium Prices on Mutual Debts of Subjects of Global Economy**

*by Yadulla Hasanli, Institute of Control Systems ANAS, Scientific Research Institute of Economic Studies Azerbaijan State University of Economics (UNEC), Azerbaijan.*

**2. Management of higher education institution staff activity efficiency on the basis of flexible stimulation system**

*by Dmitriy Anufriev, Olga Shikulskaya, Astrakhan state university of civil engineering, Russia; Kanagat Dyusekeyev, Astrakhan state university, Russia; Mikhail Shikulskiy, Astrakhan state technical university, Russia.*

**3. Management of public finances through the electronic systems and It's positive sides**

*by Tea Khorguashvili, Tamar Makasarashvili, Giuli Giguashvili, Gori State Teaching University, Georgia; Natia Khorguashvili, European Teaching University, Georgia.*

**4. Technical and Communicational Standards of E-Invoicing**

*by Ilknur Gur Nalcaci, Idea Teknoloji Cozumleri A.Ş., Turkey.*

**5. The prediction of the chance of selling of houses as the factor of financial stability**

*by Ceyhun Abbasov, Qafqaz University, Azerbaijan.*

**6. Using web-based geoinformation technologies within micro geo-marketing researches**

*by Milikhin M.M., Gritsenko Y.B., Ekhlakov Yu.P., Zhukovsky O.I., Senchenko P.V., Tomsk State University of Control Systems and Radioelectronics, Russia.*

**7. Comparative analysis of strategies and trends shaping the information economy of Azerbaijan with leading countries**

*by A.G.Aliyev, R.O.Shahverdiyeva, V.A.Abbasova, Institute of Information Technology of ANAS, Azerbaijan.*



**8. A Fuzzy Logic Approach to Predict the Best Fitted Apparel Size in Online Marketing**

*by Efendi Nasibov, Alper Vahaplar, Murat Demir, Burak Okur, Dokuz Eylul University, Turkey.*

**9. Analyze of Results of Implementation of Fuzzy-Queries and Mathematical Structure of The Relational Database in Corporate Information Systems**

*by Kenan Kilic Suleyman, Nuray Kilic Bilal, Anar Rustemov Murshud, Qafqaz University, Azerbaijan; Tarlan Abdullayev Samad, Odlar Yurdu University, Azerbaijan.*

**10. Sustainable Development of Manufacturing Enterprises Based on Structural, Infological and Dynamic Modeling**

*by R. T. Sirazetdinov, A. V. Samodurov, A. N. Khusnutdinov, E. N. Tarchinskaya, Kazan National Research Technical University named after A.N.Tupolev, Russia.*

**11. Model evaluation of an Innovative Capital**

*by Arzu Huseynova, Ministry of Economic, Institute for Scientific Research on Economic Reforms, Azerbaijan; Ophelya Mazanova, UNEC, Azerbaijan.*

**12. E-Services Security Assessment Model**

*by Yadigar Imamverdiyev, Institute of Information Technology ANAS, Azerbaijan.*

**13. Implementing E-Democracy in Russia: Institutional Resources and Modernization Risks**

*by Liliia Pankratova, Saint Petersburg State University, Russia; Sergey Pankratov, Volgograd State University, Russia.*

**14. Features electronic payment systems in the information economy**

*by A.F.Musayev, A.G.Aliyev, E.H.Musayeva, Institute of Information Technology of ANAS, Azerbaijan.*

**15. A critical analysis of Zambia's e-government adoption**

*by Willard Munyoka, Manoj Maharaj, University of KwaZulu-Natal, South Africa.*

**16. Hotspot Information of Public Opinion in E-Government**

*by Ramiz Aliguliyev, Günay Niftaliyeva, Institute of Information Technology of ANAS, Azerbaijan.*

**17. Regulation of Natural Monopoly via Competition Policy**

*by Adalat Muradov, Nazim Hajiyev, Fariz Guliyev, Azerbaijan State University of Economics, Azerbaijan.*

**SESSION 7.1**  
**ICT IN EDUCATION, HUMANITIES, SOCIAL SCIENCES AND**  
**RESEARCH**

Session Co-Chairs:

**Time: 11:30–17:30**

**Hall: C**

**Location: AZERBAIJAN TECHNICAL UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. ICT in Humanities: phenomenon of Corpus Linguistics**

*by Galina Kedrova, Maria Volkova, Moscow State Lomonosov University, Russia.*

**2. Interactive whiteboard in motivation of pupils of primary school**

*by Gabriel Báñez, Danka Lukáčová, Lukáš Vaněk, Peter Hrubý, University of Constantine the Philosopher, Slovakia.*

**3. Expert Approach to Statistical Assessment of Education Quality: The Case of Azerbaijan**

*by Sardar Shabanov, Fariz Quliyev, Azerbaijan State University of Economics, Azerbaijan.*

**4. Information Systems as a Component Part of Tertiary Education Quality Assurance**

*by Alena Hašková, Constantine the Philosopher University in Nitra, Slovak.*

**5. Audiovisual Technologies for Foreign Languages Teaching**

*by Veronika Pisarenko, Southern Federal University, Russia; Shavadi Arsaliev, The Chechen state university, Russia.*

**6. Development of intelligent learning system based on the ontological approach**

*by A.N. Afanasyev, N.N. Voit, D.S. Kanev, Ulyanovsk state technical university, Russia.*

**7. Simulation of Virtual Environment for the Development of Teaching Laboratories**

*by Kseniia Kuzmina, Anzhela Andreeva, ITMO University, Russia.*

**8. The Impact of Pulse Shaping Filters on OFDM-Based Visible Light Communications**

by Omer Narmanlioglu, Murat Uysal, Ozyegin University, Turkey; Refik Caglar Kizilirmak, Nazarbayev University, Kazakhstan.

**9. Web application as support for learning methodology in informatics education**

by Peter Kuna, Martin Vozár, Constantine the Philosopher University in Nitra, Slovakia.

**10. Professional Training in Embedded Systems and its Promotion**

by Alena Hašková, Constantine the Philosopher University in Nitra, Slovakia; Dirk Van Merode, Thomas More Mechelen-Antwerpen University College, Belgium.

**11. Development of the Virtual Physical Laboratory Work “Franck-Hertz Experiment”**

by Madina Ipalakova, Yevgeniya Daineko, Mariya Brodyagina, Marina Yunnikova, Zhiger Bolatov, Yermek Yessenov, International Information Technology University, Kazakhstan.

**12. Education of Goniometric Functions with MATLAB software**

by Lucia Rumanová, Viliam Ďuriš, FNS CPU in Nitra, Slovakia.

**13. Geometry Software Cabri 3D in Teaching Stereometry**

by Dusan Vallo, Julia Zahorska, Faculty of Natural Sciences, CPU in Nitra, Slovakia.

**14. The possibilities of using experiments in education of special technical subjects**

by Gabriel Báñez, Danka Lukáčová, Jana Depešová, Lukáš Vaněk, University of Constantine the Philosopher, Slovakia.

**15. Evolution of Dynamic User Models for Adaptive Educational Hypermedia System (AEHS)**

by Nafisa Abdo, University of West Kordofan, Sudan; Noureldien A. Noureldien, University of Science and Technology, Sudan.

**SESSION 8**  
**ICT IN MEDICINE AND HEALTH CARE**

**Session Co-Chairs:**

**Time: 11:30–17:30**

**Hall: D**

**Location: AZERBAIJAN TECHNICAL UNIVERSITY**

**13:30–14:30 Lunch**

**15:30–16:00 Coffee Break**

**1. Dichotic Listening Test in case of Small Stimulus Set: Random Walk and Sequential Wald Analysis**

*by Elena Popova, St. Petersburg Institute for Informatics and Automation of Russian Academy of Sciences, Russia; Evgeny Wasserman, St. Petersburg Institute for Informatics and Automation of Russian Academy of Sciences, Saint Petersburg State University, Herzen State Pedagogical University of Russia, St. Petersburg Scientific Center of Russian Academy of Sciences, Russia; Nikolay Kartashev, Petersburg Institute for Informatics and Automation of Russian Academy of Sciences, St. Petersburg Scientific Center of Russian Academy of Sciences, St. Petersburg Clinical Hospital of Russian Academy of Sciences, Russia.*

**2. Using Fuzzy logic concepts in creating the decision making expert system for cardio - vascular diseases (CVD)**

*by Assemgul Duisenbayeva, Iskander Beisembetov, Lyazzat Atymtayeva, Kazakh-British Technical University, Kazakhstan.*

**3. Effect of Filter Selection On Classification of Extrasystole Heart Sounds Via Mobile Devices**

*by Huseyin Coskun, Uşak University, Turkey; Tuncay Yiğit, Arif Koyun, Suleyman Demirel University, Turkey; Ömer Deperlioğlu, Afyon Kocatepe University, Turkey.*

**4. Drag Design of Sulfanilamide based on the Technology of Immune Network Modeling and Ontological approach**

*by Samigulina G.A., Institute of Information and Computing Technologies, Kazakhstan; Samigulina Z.I., Kazakh National Research Technical University after K.I. Satpaev, Kazakhstan.*

**5. Generation of bioinspired search procedures for optimization problems**

*by Vladimir Kureichik, Dmitry Zaporozhets, Daria Zaruba, Southern federal university, Russia.*

**6. Expert system for Pharmacy**

by *Sagdoldanova Aiyim, Atymtayeva Lyazzat, Kazakh-British Technical University, Kazakhstan.*

**7. Utilizing Fuzzy Colored Petri-nets to Monitor Cardiac Pacemaker Behavior**

by *Negar Majma, Seyed Morteza Babamir, University of Kashan, Iran; Amirhassan Monadjemi, University of Isfahan, Iran.*

**8. The Mesothelioma Disease Diagnosis with Artificial Intelligence Methods**

by *Hamza Osman Ilhan, Yildiz Technical University, Turkey; Enes Celik, Kirklareli University, Turkey.*

**9. Experience of using of machine learning methods to identify the left ventricle region in echocardiographic records**

by *A.O. Bobkova, V. V. Zyuzin, S.V. Porshnev, Ural Federal University, Russia; V.V. Bobkov, Ural State University of Economics, Russia.*

**10. Classification of Breast Cancer by Using Pattern Recognition Tools**

by *Laven Wahhab, Kadir Tufan, Shahriar Shamil Uulu, Fatih University, Turkey.*

**11. Assistive Healthcare Home Monitoring System for Elderly People**

by *Ali Mubarakov, Yestay Zhengis, Yau Hee Kho, Nazarbayev University, Kazakhstan.*

**12. An Adaptive Network-Based Fuzzy Inference System for Estimating the Duration of Medical Services: A Case Study**

by *İhsan Hakan Köksal, Buse Türkoğlu, Yaşar University, Turkey; Mete Eminağaoğlu, Dokuz Eylül University, Turkey.*

*AICT2016 International Conference*



OCTOBER, 2016

*Location:*

**INSTITUTE OF INFORMATION TECHNOLOGY  
OF ANAS**

## 14 October 2016

**Location: INSTITUTE OF INFORMATION TECHNOLOGY  
OF ANAS**

### 10:00–10:15 WELCOME SESSION

**Hall A**  
(Main) **Professor Rasim Aliguliyev,**  
*Institute of Information Technologies of ANAS Director,*  
*Azerbaijan*

### 10:15–10:40 KEYNOTE MINI SESSION

**Hall A**  
(Main) **Speaker: Professor Bhawani Chowdhry,**  
*Mehran University of Engineering & Technology,*  
*Pakistan*  
**Title:** Online Tools as an enabler for Blooms Taxonomy in  
Education - An Engineering Perspective.

### 10:40–11:40 TUTORIAL MINI SESSION

**Hall A**  
(Main) **Speaker: Victor Dashonok**  
*EMC-certified Expert / St.Petersburg State Transport*  
*University, Russia*  
**Title:** Cloud Infrastructure and Services.

### 11:40–12:00 Coffee Break

### 12:00–15:30 CONCURRENT TECHNICAL SESSIONS

**SESSION 2.2**  
**DATA MINING AND DATA ENGINEERING**

Session Co-Chairs:

**Time: 12:00–15:30**

**Hall: A**

**13:30–14:20 Lunch**

**1. VLSI Elements Placement Based on Simulation of Bats Behavior in Nature**

*by Elmar Kuliev, Andrey Lezhebokov, Yuri Kravchenko, Southern federal university, Russia.*

**2. Identification of the Parallel Documents from Multilingual News Websites**

*by Bagdat Myrzakhmetov, Aitolkyn Sultangazina, Aibek Makazhanov, National Laboratory Astana, Kazakhstan.*

**3. Maximum Relevance and Class Separability for Hyperspectral Feature Selection and Classification**

*by Saeed Jahanshahi, Islamic Azad University, Iran.*

**4. Authorship Identification of the Azerbaijani Texts Using n-grams**

*by Aida-zade K.R., Talibov S.Q, Institute of Control Systems of ANAS, Azerbaijan.*

**5. Object Detection and Segmentation Using Data from Time-Of-Flight Cameras**

*by Timur Luguev, Aida Razakova, Dagestan State University, Russia.*

**6. Heuristic approach to model of corporate knowledge construction in information and analytical systems**

*by Victoria Bova, Vladimir Kureichik, Daria Zaruba, Southern federal university, Russia.*

**7. Visualization of Parallel Modeling of Dynamical Processes on stochastic Kronecker graphs**

*by Anastasia A. Lantseva, Claudia K. Bochenina, Sergey V. Ivanov, ITMO University, Russia.*

**8. The most common problems of Data Mining**

*by Sabina Fomenko, Sayar Abdullayev, Institute of Information Technology of ANAS, Azerbaijan.*



**9. Fuzzy Method of Revealing Implicit Causality within a Control System**

*by Dmitry M. Nazarov, Svetlana V. Begicheva, Dmitry A. Azarov, Ural State University of Economics, Russia.*

**10. A Sentence Selection Model and HLO Algorithm for Extractive Text Summarization**

*by Rasim Alguliyev, Ramiz Aliguliyev, Nijat Isazade, Institute of Information Technology of ANAS, Azerbaijan.*

**11. Applying of ontological engineering to represent knowledge and training sessions**

*by Bulat Kubekov, Vitaliy Naumenko, «Turan» university, Kazakhstan; Anar Utegenova, Kazakh National Technical University after K.I.Satpaev, Kazakhstan.*

**12. Database Schema Method for Automatic Semantic Errors Resolving During Information Systems Integration**

*by Andrey V. Grigoryev, Alexander A. Kropotin, Alexander G. Ivashko, Tyumen State University, Russia.*

**13. Syntactic Text Analysis Without a Dictionary**

*by Bessmertny I. A., Platonov A.V., Poleschuk E.A., Ma Pengyu, ITMO University, Russia.*

**14. A Statistical Approach to Mining the DM Strategy for OWA Operators**

*by Resmiye Nasiboglu, Baris Tekin Tezel, Dokuz Eylul University, Turkey.*

**15. Sentiment Analysis for Bank Service Quality: A Rule-based Classifier**

*by Yuliya Bidulya, Elena Brunova, Tyumen State University, Russia.*

**16. Opinion Mining and Sentiment Analysis for Contextual Online-Advertisement**

*by Abzhetdin Z. Adamov, Applied Research Center CeDAWI, Qafqaz University, Azerbaijan; Eshref Adali, Istanbul Technical University, Turkey.*

**SESSION 4.2**  
**LATEST TRENDS IN ICT APPLICATION**

**Session Co-Chairs:**

**Time: 12:00–15:30**

**Hall: B**

**13:30–14:20 Lunch**

**1. The Synthesis of Reliable Solutions of the Logistics Problems Using Geographic Information Systems**

*by Stanislav Belyakov, Marina Belyakova, Marina Savelyeva, Southern Federal University, Russia; Igor Rozenberg, Public Corporation “Research and Development Institute of Railway Engineers”, Russia.*

**2. Recommender System Providing Recommendations for Unidentified Users of a Commercial Website**

*by Igor N. Gluhih, Ivan Y. Karyakin, Lyudmila V. Sizova, Tyumen State University, Russia.*

**3. Intelligent Control System for The Rail Transportations**

*by F.F.Pashchenko, V. A. Trapeznikov Institute of Control Sciences of Russian Academy of Sciences, Russia; N.A.Kuznetsov, I.K.Minashina, N.G.Ryabykh, E.M.Zakharova, Moscow Institute of Physics and Technology (State University), Russia.*

**4. Bioinspired approach for 3D packaging problem**

*by Vladimir Kureichik, Alexander Glushchenko, Vladimir Kureichik Jr., Anton Orlov, Southern Federal University, Russia.*

**5. Existence of repetitions of digits in the construction of periodic sequences related to  $3x+1$  problem**

*by Yagub N. Aliyev, Qafqaz University, Azerbaijan.*

**6. Computer Modeling of Spatial Structure of Dermorphin**

*by G.A.Akverdieva, Baku State University, Azerbaijan.*

**7. Selection of time series forecasting model, using a combination of linguistic and numerical criteria**

*by T. Afanasieva, A. Sapunkov, Ulyanovsk State Technical University, Russia.*

**8. Usage of fuzzy extractors in a handwritten-signature based technology of protecting a hybrid document management system**

*by Pavel Lozhnikov, Alexey Sulavko, Danil Volkov, Omsk State Technical University, Russia.*

**9. A Memory Efficient Distributed Fuzzy Joint Points Clustering Algorithm**

*by Can Atilgan, Efendi Nasibov, Dokuz Eylul University, Turkey.*

**10. The technique of creating distributed computing systems based on service-oriented architecture**

*by Lyashov M.V., Bereza A.N., Babaev A.M., Alekseenko J.V., Nazvantsev D.S., Don State Technical University, Russian.*

**11. Simulation of identification process of parameters of movement of the wagon on monorail transport**

*by Moroz N., Starostenko A., Moscow Institute of Physics and Technologies, Russia; Gorbachev R.A., Kuznetsov N.A., "GMK Innovations" LLC, Russia.*

**12. Automated Recognition System of Statistic Gestures via Kinect Sensor**

*by Saule Kudubayeva, Dmitriy Ryumin, Kostanay State University named after A. Baytursynov, Kazakhstan; Marat Kalghanov, Kostanay State Pedagogical Institute, Kazakhstan; Almatova Assem, Arkalyk pedagogical Institute, Kazakhstan.*

**13. Investigation of the Spatial Structure of the Analogue [LEU7] of Octarphin Molecule by Computer Modeling**

*by L.N. Agayeva, N.A. Akhmedov, L.I. Ismailova, R.M. Abbasli, Baku State University, Azerbaijan.*

**SESSION 5.2**  
**COMMUNICATION, NETWORK AND HARDWARE**

**Session Co-Chairs:**

**Time: 12:00–15:30**

**Hall: C**

**13:30–14:20 Lunch**

**1. Performance Improvement of 40 Gb/s WDM Systems by Optimization of Dispersion Map**

*by Muhammad Yousaf Hamza, Pakistan Institute of Engineering and Applied Sciences, Pakistan; Imran Hayee, University of Minnesota, USA.*

**2. eU-OFDM Based Multiple Access for Visible Light Communication Networks**

*by Gerard Djengomemgoto, Omer Narmanlioglu, Murat Uysal, Ozyegin University, Turkey; Refik Caglar Kizilirmak, Nazarbayev University, Kazakhstan.*

**3. Analysis of Applicability of Open Single Sign-On Protocols In Distributed Information-Computing Environment**

*by Lazarev S.A., Belgorod State University, Russia; Demidov A.V., Volkov V.N., Stychuk A.A., Polovinkin D.A., Orel State University, Russia.*

**4. Performance of OFDM-Based Adaptive Visible Light Communications**

*by Omer Narmanlioglu, Murat Uysal, Ozyegin University, Turkey; Refik Caglar Kizilirmak, Nazarbayev University, Kazakhstan.*

**5. Effective Multithreshold Decoding Algorithms for Wireless Communication Channels**

*by Zolotarev V., Ovechkin G., Ryazan state radio engineering university, Russia; Issainova A., Satybaldina D., Tashatov N., L.N. Gumilyov Eurasian National University, Kazakhstan.*

**6. Study of robust stability and quality of the two channel control system**

*by Aizhan Erulanova, Gennadii Shadrin, Natalia Arinova, D. Serikbaev East Kazakhstan state technical university, Kazakhstan.*

**7. A Network Platform for Creating Digital Entrepreneurship in Cloud Environment based on big data**

*by Heresh Beyadar, Maryam Askari, Ararat Askari, Islamic Azad University, Iran.*

**8. Developing a Computation Algorithm for Approximation Solution of Linear Fredholm-Stieltjes Integral Equations of Second Kind Using Generalized Trapezoid Quadrature Method**

*Isa Muslu, International Ataturk-Alatoo University, Kyrgyzstan; Moussa Mahamat Boukar, Nigerian Turkish Nile University, Nigeria.*

**9. Towards optimization of Availability and Cost in Selection of Geo-Distributed Clouds Datacenter**

*by Hasan Ziafat, Seyed Morteza Babamir, University of Kashan, Iran.*

**10. On the methods of collecting and storing big network traffic**

*by Ramiz Shikhaliyev, Institute Information Technology ANAS, Azerbaijan.*

**11. A General Extensible Framework for Mobile Location-based Information Systems**

*by Mona A. E. Rizvi, Assan Toleuov, Dzhamshed Khaitov, Sagynysh Baitursinov, Nazarbayev University, Kazakhstan.*

**12. A Heuristic Algorithm for the Band Collocation Problem**

*by Arif GURSOY, Ege University, Turkey; Mehmet Kurt, Urfat Nuriyev, Izmir University, Turkey; Hakan Kutucu, Karabuk University, Turkey.*

**13. Multi-objective Optimization Route Selection and Resource Allocation in Wireless Multi-Hop Cooperative Cognitive Radio Sensor Networks based on OFDMA**

*by Fereshteh Atri Niasar, Ali Shahzadi, Islamic Azad University, Iran.*

**14. Comparison of QoS Architectures for VoIP Traffics in IPv4 and IPv6**

*by Hayder AL-Fayyadh, Ministry of Education, Iraq; Murat Koyuncu, Atilim University, Turkey.*

**SESSION 5.3**  
**COMMUNICATION, NETWORK AND HARDWARE**

Session Co-Chairs:

**Time: 12:00–15:30**

**Hall: D**

**13:30–14:20 Lunch**

**1. Evaluation of the Available Wireless Remote Devices Subject to the Information Impact**

*by Nurzhan Bazhayev, Ilya Lebedev, Irina Krivtsova, Mikhail Sukhoparov, Kseniya Salakhutdinova, Alexander Davydov, Yuriy Shaparenko, Saint Petersburg National Research University of Information Technologies, Mechanics and Optics (ITMO University), Russian.*

**2. Monitoring of Qualitative Changes of Network Traffic States Based on the Heteroscedasticity Effect**

*by Aleksandr Skatkov, Aleksey Bryukhovetskiy, Victoria Shevchenko, Dmitry Voronin, Sevastopol State University, Russia.*

**3. New Generation Networks Performance Analysis and Optimization**

*by Zaychenko Yuriy, Gasanov Aydin, Institute for Applied System Analysis, KPI, Ukraine; Galib Hamidov, Azarishiq JSC, Azerbaijan.*

**4. Virtual cloud network laboratory based on IaaS with automatized creation of network topology on demand**

*by Yu.A. Ushakov, P.N. Polezhaev, L.V. Legashev, A.E. Shukhman, I.P. Bolodurina, Orenburg State University, Russia.*

**5. Development a method for routing in heterogeneous telecommunication systems under uncertainty using fuzzy logic**

*by Q.T. Tran, T.H.T Vo, V.N. Dmitriev, A.A. Sorokin, Astrakhan State Technical University, Russia.*

**6. Smart Control System of Thermal Mode of Stabilization Column**

*by Gulyaev S.V., Institute of Control Sciences of Russian Academy of Sciences, Russia.*

**7. Visual Quality Estimation Technique for Services in Cloud Environments**

*by Aleksandr Skatkov, Elena Mashchenko, Victoria Shevchenko, Dmitry Voronin, Sevastopol State University, Russia.*

**8. Automation of Interaction of Customers and Suppliers in Control System of Providing Electronic Services to The Population Within Network of Portals**

*by Volkov V.N., Stichuk A.A., Lunev R.A., Demidov A.V., Orel State University, Russia.*

**9. Analysis of the status of marine automation systems problems on the example of modern technological networks**

*by Sergei Sokolov, Sergei Chernyi, Admiral Makarov State University of Maritime and Inland Shipping, Russia; Aleksandr Bordug, Ivan Titov, Kerch State Maritime Technological University, Russia.*

**10. Algorithms in Portable Digital Device UHDTV Panoramic Image Formation**

*by I.S. Konstantinov, S.A. Lazarev, K.A. Rubtsov, Y.N. Maslakov, Belgorod State University, Russia.*

**11. CPTrustworthiness: New Robust Model for Trust Evaluation in Cloud Computing**

*by Fargana Abdullayeva, Institute of Information Technology of ANAS, Azerbaijan.*

**12. Real time Face Detection/Monitor using Raspberry pi and MATLAB**

*by Ali Akbar Shah, Syed Zulfiqar Ali Zaidi, Dr. Bhawani Shankar Chowdhry, Dr. Jawaid Daudpoto.*

**13. Performance of Communication Protocols Under Transfer a Group of Acknowledgment Frames**

*by Kushnazarov Farruh I, Tashkent Institute of Railway Transport Engineers, Uzbekistan; Yakovlev Valentin V., Federal state budgetary educational institution of higher education "St. Petersburg State University of Railways of Emperor Alexander I», Russia.*

**SESSION 7.2**  
**ICT IN EDUCATION, HUMANITIES, SOCIAL SCIENCES AND RESEARCH**

**Session Co-Chairs:**

**Time: 12:00–15:30**

**Hall: E**

**13:30–14:20 Lunch**

**1. IT in the Educational Programs in the Field of: "Safety of Person's Activity"**

*by Dmitrieva I.A., Gordienko L.V., Popova O.V., Engineering Technological Academy of Southern Federal University, Russia.*

**2. Rewriting, Academic Fraud and Falsification: Analyzing Cases of Academic Practice in st. Petersburg, Russia**

*by Rekhina L.S., Pankratova L.S., Sokolov N.V., Saint Petersburg State University, Russia; Karimov R.N., Institute of Geography of National Academy of Sciences, Azerbaijan.*

**3. MATLAB and Heat Transfer in Solid State**

*by Martin Vozár, Peter Kuna, Constantine the Philosopher University in Nitra, Slovakia.*

**4. Video in Teaching**

*by Veronika Pisarenko, Galina Krasnoshchekova, Ecological and Social Systems of Southern Federal University, Russia.*

**5. Construction of individual educational trajectory of students based on e-learning**

*by Rinat R. Ibatullin, Ellina S. Anisimova, Kazan Federal University, Russia.*

**6. Impact Factor Penalized by Self-Citations**

*by Rasim Alguliyev, Ramiz Aliguliyev, Nigar Ismayilova, Institute of Information Technology of ANAS, Azerbaijan.*

**7. Mathematical and computer modeling of the process of groundwater pollution**

*by Vladimir Krivykh, Zhanar Beldeubayeva, Saule Rakhmetullina, EKSTU after D.Serikbaev, Kazakhstan.*

**8. Architecture of Smart Learning Courses in Higher Education**

*by Elena E. Merzon, Rinat R. Ibatullin, Kazan Federal University, Russia.*



**9. Course Scheduler and Recommendation System for Students**

*by Suleyman Uslu, Can Ozturan, Bogazici University, Turkey; Mehmet Fatih Uslu, Yildiz Technical University, Turkey.*

**10. Loran-C Cycle Identification and ECD Estimation in Presence of white Gaussian Noise**

*by Ali Kafaei Zad Tehrani, Ali Pourmohammad, Amirkabir University of Technology, Iran.*

**11. The Influence and Role of CAD and Computer Mathematics in Engineering Education**

*by S.T.Huseynov, National Academy of Aviation of Azerbaijan, Ganja State University, Azerbaijan.*

**12. Electronic Science in Azerbaijan: Current Status, Problems and Perspectives**

*by Rasim M.Algulyev, Rashid Q.Alakbarov, Tahmasib Kh.Fataliyev, Institute of Information Technology of ANAS, Azerbaijan.*

**13. Semi-automatic Annotation Tool for Sign Languages**

*by Kairat Aitpayev, Shynggys Islam, Alfarabi Imashev, National Laboratory Astana, Kazakhstan.*

**15:30–16:00**  
**Hall: A**

**CLOSING CEREMONY**