



www.aict.info/2016

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

10th IEEE International Conference on
**APPLICATION of INFORMATION and
COMMUNICATION TECHNOLOGIES**

(DRAFT & PRELIMINARY)
CONFERENCE PROGRAM

12-14 October 2016, Baku, Azerbaijan
www.aict.info/2016

CONFERENCE COMMITTEES:

CONFERENCE HONORABLE CHAIRMEN

Mr. Mikail Jabbarov,

Minister of Education of Azerbaijan

Mr. Ramin Guluzade,

Minister of Communications and High Technologies of Azerbaijan

CONFERENCE CHAIRMEN

Professor Havar Mamedov,

Rector of Qafqaz University, Azerbaijan

Professor Abel Maharramov,

Baku State University Rector, Azerbaijan

Assoc.Professor Elmar Gasimov,

Baku Higher Oil School Rector, Azerbaijan

Professor Nargiz Pashayeva,

Lomonosov Moscow State University Baku branch Rector, Azerbaijan

Professor Xalq Yahudov,

Azerbaijan Technical University Rector, Azerbaijan

Professor Mohn Harun Abdullah,

University Malaysia Sabah Vice-Chancellor, Malaysia

Professor Rasim Aliguliyev,

Institute of Information Technologies of ANAS Director, Azerbaijan

Professor Telman Aliyev,

Institute of Control Systems of ANAS Director, Azerbaijan

Professor Manzoor H. Soomro,

ECO Science Foundation (ECOSF) President, Pakistan

Professor Alexander Khoroshilov,

UNESCO Institute for Information Technologies in Education (IITE)

CONFERENCE VICE CHAIRS

Prof. Niftali Gocayev,

Qafqaz University, Azerbaijan

Professor Aydin Kazimzade,

Baku State University, Azerbaijan

Professor Azad Tagizade,

Lomonosov Moscow State University Baku branch

Assoc.Prof. Ag. Asri Ag. Ibrahim,

University Malaysia Sabah, Malaysia

Professor Oktaj Nusratov,

Institute of Information Technologies of ANAS Director

Dr. Rashid Alakbarov,

Institute of Information Technologies of ANAS

GENERAL CHAIR

Assoc.Prof. Abzeturdin Adamov, *Qafqaz University, Azerbaijan*

TECHNICAL PROGRAM CO-CHAIRS

Prof. H.Levent Akin,

Bogazici University, Turkey

Associate Prof. Vincent Guyot,

ESIEA/LIP6, France

Prof. Asoke Talukder,

IIT, Bangalore, India

Prof. Serdar Korukoğlu,

Ege University, Turkey

In Jeong Lee,

ITIRC Vice-president, Hoseo University, Korea

Tae Woon Kang,

Professor and Consultant, National Research Foundation, Korea

Assistant Prof. Kshetrimayum Rakhesh Singh,

IIT-Guwahati, Guwahati, Assam, India

Dr. Nazim Agoulmine,

University of Evry Val d'Essonne, France

Professor Eshref Adali

Istanbul Technical University, Turkey

Professor Vladimir Kureychik

Southern Federal University, Russia

Dr. Gennady Smorodin,

EMC Academic Alliance Russia & CIS, Russia

PANEL CHAIR

Assoc.Prof. Abzeturdin Adamov, *Qafqaz University, Azerbaijan*

TUTORIALS AND PUBLICATION CHAIRS

Assoc.Prof. Abzeturdin Adamov, *Chair of Computer Engineering Department at the Qafqaz University*

LOCAL ORGANIZING COMMITTEE

Prof. Khalil Ismailov,

Dean of Engineering Faculty, Qafqaz University

Assoc.Prof. Abzeturdin Adamov,

Director of Applied Research Center for Data Analytics and Web Insights (CeDAWI), Qafqaz University

Assoc.Prof. Babek Abbasov,

Head of Information Technology and Systems Department, Qafqaz University

Assoc.Prof. Ali Shahintash,

Chair of Computer Engineering Department, Qafqaz University

Prof. Hamzaga Orujov,

Head of Department of Mathematics, Qafqaz University

Assoc.Prof. Vugar Musayev,

Institute of Information Technologies of ANAS

Prof. Fakhreddin Isayev,

Head of Department of Mathematics and Informatics, Qafqaz University

Asgar Mammadli,

CeDAWI Research Center, Qafqaz University

Sevil Imanova,

Industrial Engineering Department, Qafqaz University

Etibar Seyidzade,

Computer Engineering Department, Qafqaz University

Khayyam Masiyev,

Computer Engineering Department, Qafqaz University

Anar Khocayev,

Computer Engineering Department, Qafqaz University

Anar Rustemov,

Information Technology and Systems Department, Qafqaz University

Kenan Kilic,

ICT Scientific Research Center, Qafqaz University

Rauf Suleymanli,

Computer Engineering Department, Qafqaz University

ADVISORY AND STEERING COMMITTEE

Niftali Gocayev,

Vice Rector for Research and Science, Qafqaz University, Azerbaijan

Victor Kureichik,

Taganrog Institute of Technology, Southern Federal University, Russia

Mehmet Ulema,

Manhattan College, USA

Adnan Yazici,

Middle East Technical University, Turkey

Raouf Boutaba,

University of Waterloo, Canada

Guy Omidyar,

IFIPTC6 WG6.8 Past Chair, USA

Insepov Zinetulla,

Nazarbayev University Research and Innovation System, Kazakhstan

TECHNICAL PROGRAM COMMITTEE MEMBERS

Cem Ersoy,

Bogazici University, IEEE ComSoc Chapter Chair, Turkey

Asoke K Talukder,

IIT Bangalore, India

Etibar Seyidzade,

Qafqaz University, Azerbaijan

Agasi Melikov,

National Aviation Academy, Azerbaijan

- Nadir Alishov,** *Ukrain National Akademy of Science, Ukraine*
Petr Sosnin, *Ulyanovsk State Technical University, Russia*
Abzetedin Adamov, *Qafqaz University, Azerbaijan*
Galina Kedrova, *Moscow State Lomonosov University, Russia*
Khalil Ismailov, *Qafqaz University, Azerbaijan*
Ali Sahintas, *Qafqaz University, Azerbaijan*
Mehmet Ulema, *Manhattan College, USA*
Masoud Mashhour, *Carleton University, Canada*
Kamil Saraç, *University of Texas at Dallas, USA*
Ramiz Alguliyev, *Institute of Information Technologies of ANAS, Azerbaijan*
- Galina Mehdiyeva,** *Baku State University, Azerbaijan*
Anar Rustemov, *Qafqaz University, Azerbaijan*
Yashar Hajiyev, *Qafqaz University, Azerbaijan*
Babek Abbasov, *Qafqaz University, Azerbaijan*
Reijo Savola, *VTT Technical Research Centre of Finland, Finland*
Alexander Afanasyev, *Ulyanovsk State Technical University, Russia*
Ali Pourmohammad Amirkabir, *University of Technology, Iran*
Eyyup Gulbandilar, *Eskisehir Osmangazi University, Turkey*
Lyazzat Atymtayeva, *Kazakh National Research Technical University named after K.I. Satpayev, Kazakhstan*
- Mohamed Musa,** *Sudan University of Science and Technology, Sudan*
Muammer Akcay, *Kütahya Dumlupınar University, Turkey*
Murat Koyuncu, *Atilim University, Turkey*
Samir Rustamov, *Institute of Cybernetics of the National Academy of Sciences, Azerbaijan*
- Victor Abrukov,** *Chuvash State University, Russia*
Efendi Nasibov, *Dokuz Eylul University, Turkey*
Kashif Nisar, *University Malaysia Sabah, Malaysia*
Mohd Helmy Abd Wahab, *Universiti Tun Hussein Onn Malaysia, Malaysia*
Tofiq Hasanov, *Kyoto Institute of Technology, Japan*
Hasan Ogul, *Bashkent University, Turkey*

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: TBD) |
| 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 Tour |

13 October 2016

Location: BAKU STATE UNIVERSITY
Address: Academic Z. Khalilov str., 23, Baku

| | |
|----------------------|--|
| 09:30 – 10:00 | Registration |
| 10:00 – 11:00 | Keynote Mini Session |
| 11:00 – 11:30 | Coffee Break |
| 11:30 – 13:30 | Concurrent Technical Sessions |
| 13:30 – 14:30 | Lunch |
| 14:30 – 17:30 | Concurrent Technical Sessions |
| 17:30 – 18:00 | Coffee Break |
| 18:00 – 19:30 | City Sightseeing Tour – Sumgait (invitation will be provided during registration) |
| 19:30 | Banquet Dinner (invitation will be provided during registration) |

14 October 2016

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

| | |
|----------------------|--------------------------------------|
| 10:00 – 11:00 | Invited talk |
| 11:00 – 11:30 | Coffee Break |
| 11:30 – 13:30 | Concurrent Technical Sessions |
| 13:30 – 14:30 | Lunch |
| 14:30 – 15:30 | Concurrent Technical Sessions |
| 15:30 – 16:00 | Closing Ceremony |
| 16:00 | Social Program |

AICT2016 International Conference



OCTOBER, 2016

Locations:
QAFQAZ UNIVERSITY

14 October 2016

Location: QAFQAZ UNIVERSITY (QU), Main Building

Address: H.Aliyev str., 120, Khirdalan

10:00–10:40

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

Mr. Mikail Jabbarov,

Minister of Education of Azerbaijan

Mr. Ramin Guluzade,

Minister of Communications and High Technologies of Azerbaijan

Professor Abel Maharramov,

Baku State University Rector, Azerbaijan

Assoc.Professor Elmar Gasimov,

Baku Higher Oil School Rector, Azerbaijan

Professor Nargiz Pashayeva,

Lomonosov Moscow State University Baku branch Rector, Azerbaijan

Professor Xaliq Yahudov,

Azerbaijan Technical University Rector, Azerbaijan

Professor Mohn Harun Abdullah,

University Malaysia Sabah Vice-Chancellor, Malaysia

Professor Rasim Aliguliyev,

Institute of Information Technologies of ANAS Director, Azerbaijan

Professor Telman Aliyev,

Institute of Control Systems of ANAS Director, Azerbaijan

Mr. Khayyam Hasanli,

Chief Information Officer, Azerfon LLC (Nar), Azerbaijan

Dr. Gennady Smorodin,

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: 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: Cloud Infrastructure and Services

16:30

Sightseeng Tour

AICT2016 International Conference



OCTOBER, 2016

Locations:
BAKU STATE UNIVERSITY

13 October 2016

Location: BAKU STATE UNIVERSITY

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

SESSION 1
BIG DATA MANAGEMENT AND APPLICATION

Session Co-Chairs:

Time: 11:30–17:00

Hall: A

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 Beisebekova, 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, Malaysia; Abzetedin Adamov, Applied Research Center for Data Analytics and Web Insights (CeDAWI), Qafqaz University, Azerbaijan.

15. Research on the use of hypertext in the educational process

by Lubomir Žáčok, University of Matej Bel, Slovakia; Milan Bernát, Renáta Bernátová, University of Prešov, Slovakia.

16. 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.

17. 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

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 Kotelnikov 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 Kursity, 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. Design and creation of a question-answering system for tax service

by *Shynar Turmaganbetova, Assel Omarbekoa, Altynbek Sharipbay, L.N. Gumilyov Eurasian National University, Kazakhstan.*

14. 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.*

15. 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.*

16. 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.*

**SESSION 3
CYBER SECURITY ISSUES**

Session Co-Chairs:

Time: 14:00–17:30

Hall: C

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 Rajabovich, Tashkent University of information technologies, Uzbekistan.

8. Using SOM Algorithms for developing a model for Intrusion Detection System: Knowledge management perspective

by Safanaz Heidari, Alireza Poorebrahimi, Islamic Azad University, Iran.

9. Privacy Protection in Nigerian E-Government Systems

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

10. 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.

11. Results of implementing WPA2-Enterprise in Educational Institution

by Konstantin Yanson, ITMO University, Russia.

12. 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: 14:00–17:30

Hall: D

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. 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.*

8. 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.*

9. Computer Modeling of Spatial Structure of Dermorphin

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

10. 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.*

11. A FC²TA Model for Congestion Management in Confidence AODV Protocol

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

12. 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.*

13. The subject-oriented notation for end-user data modelling

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

14. Application of Neural Network for Digital Recursive Filter Design

by *Naila Allahverdiyeva, Baku Higher Oil School, Azerbaijan.*

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

by *I.N. Alieva, Z.I. Hajiyev, S.D. Demukhamedova, Baku State University, Azerbaijan; N.M. Gojayeve, Qafqaz University, Azerbaijan.*

**SESSION 5.1
COMMUNICATION, NETWORK AND HARDWARE**

Session Co-Chairs:

Time: 14:00–17:30

Hall: E

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 «Ecowid», Russia.

5. Implementing Cycling Training Application for Mobile Devices

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

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

by Igor Konstantinov, Kostiantyn Polshchykov, Sergej Lazarev, Olha Polshchykova, Belgorod State University, Russia.

7. 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.

8. 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.

9. Neuroevolution: problems, algorithms, and experiments

by Sergey Rodzin, Olga Rodzina, Lada Rodzina, Southern Federal University, Russia.

10. Figuratively-Semantic Support in Precedent-Oriented Solving the Project Tasks

by Petr Sosnin, Ulyanovsk State Technical University, Russia.

11. 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.

12. A Better Heuristic for the Minimum Connected Dominating Set in Ad Hoc Networks

by Onur Ugurlu, Deniz Tanir, Elnur Nuri, Ege University, Turkey.

13. 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.

14. 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: 14:00–17:30

Hall: F

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, Gunay 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: 14:00–17:30

Hall: G

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 Bánész, 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. 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.

7. 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.

8. Simulation of Virtual Environment for the Development of Teaching Laboratories

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

9. 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.

10. Web application as support for learning methodology in informatics education

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

11. 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.

12. 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.

13. Education of Goniometric Functions with MATLAB software

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

14. Geometry Software Cabri 3D in Teaching Stereometry

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

15. 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.

16. 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: 14:00–17:30

Hall: H

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, Saint Petersburg Institute for Informatics and Automation of Russian Academy of Sciences, Russia; Evgeny Wasserman, Saint 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, Saint 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 Aiym, 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. Development of Public Health Surveillance and Frequent Item Set Analysis for Infectious Diseases in Davao City

by *Cesar Ian P. Benablo, University of the Immaculate Conception, Philippines.*

12. A Framework for Clustering Cardiac Patient's Records Using Unsupervised Learning Techniques

by *Rao Muzamal Liaqat, Nazeer Abbas, National University of Sciences and Technology, Pakistan.*

13. Assistive Healthcare Home Monitoring System for Elderly People

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

14. 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

Locations:

**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: Information Storage and Management.

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: 11:40–15:30

Hall: A

13:30–14:30 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 Adamov, Applied Research Center for Data Analytics and Web Insights (CeDAWI), Qafqaz University, Azerbaijan.

SESSION 4.2
LATEST TRENDS IN ICT APPLICATION

Session Co-Chairs:

Time: 11:40–15:30

Hall: B

13:30–14:30 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. System Design and Implementation Reinforcement of The Power of The Wind Electrical Energy In The Car

by Muhammet Gümüüşsoy, Aksaray University, Turkey; Fatih Başçiftci, Selçuk University, Turkey.

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

by Yagub N. Aliyev, Qafqaz 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. Performance Analysis of e-Archive Invoice Processing on Different Embedded Platforms

by Salih Bayar, Idea Teknoloji Cozumleri, Turkey.

13. 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 Klovov, Saint Petersburg State University, Russia; Anna Pestereva, Aerial Services, Inc., USA.

14. 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.

SESSION 5.2
COMMUNICATION, NETWORK AND HARDWARE

Session Co-Chairs:

Time: 11:40–15:30

Hall: C

13:30–14:30 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 Djengomengoto, 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, Sagynsh Baitursinov, Nazarbayev University, Kazakhstan.

12. Development of information system with component of visualization for numerical solving the problem of nonstationary waves propagation in solids

by Zhanar Akhmetova, Seilkhan Boranbayev, Serik Zhuzbayev, Assel Omarbekova, L.N.Gumilyov Eurasian National University, Kazakhstan.

13. 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.

14. 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.

SESSION 5.3
COMMUNICATION, NETWORK AND HARDWARE

Session Co-Chairs:

Time: 11:40–15:30

Hall: D

13:30–14:30 Lunch

1. 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.

2. 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.

3. 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.

4. New Generation Networks Performance Analysis and Optimization

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

5. 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.

6. 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.

7. Smart Control System of Thermal Mode of Stabilization Column

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

8. Visual Quality Estimation Technique for Services in Cloud Environments

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

9. Improving Emergency Management DSS through the CAP Protocol

by Stefano Marsella, Marcello Marzoli, Ministry of the Interiors - National Fire Service, Italy.

10. 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.

11. 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.

12. 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.

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

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

14. 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.

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

Session Co-Chairs:

Time: 11:40–15:30

Hall: E

13:30–14:30 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. Web application as support for learning methodology in informatics education

by Peter Kuna, Martin Vozár, 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. Strategic options for developing information marketing in Iranian Agricultural Academic Journals

by Mojtaba Sookhtanlou, University of Mohaghegh Ardabili, Iran.

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

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

7. Impact Factor Penalized by Self-Citations

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

8. Mathematical and computer modeling of the process of groundwater pollution

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

9. Architecture of Smart Learning Courses in Higher Education

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

10. Course Scheduler and Recommendation System for Students

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

11. 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.*

12. 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.*

13. Electronic Science In Azerbaijan: Current Status, Problems And Perspectives

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

14. Semi-automatic Annotation Tool for Sign Languages

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

15. Software for Interactive Lectures on the Theory of Probability and Mathematical Statistics

by *Alexander N. Varnavsky, Ryazan State Radio Engineering University, Russia.*

15:30–16:00
Hall: A

CLOSING CEREMONY