

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

**CONFERENCE PROGRAM**

*23-25 October, Baku, Azerbaijan*

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## 23 October 2013

Location: BAKU STATE UNIVERSITY /  
INSTITUTE OF INFORMATION TECHNOLOGIES OF ANAS /  
AZERBAIJAN TECHNICAL UNIVERSITY

### 08:30 – 16:00 Events at the Baku State University

08:30 – 10:30	Registration
09:30 – 10:00	Visiting the Honorary Cemetery
10:00 – 10:30	Welcoming and Opening Ceremony
10:30 – 11:30	Keynote Session
11:30 – 12:00	Coffee Break
12:00 – 13:00	Keynote Session (continue)
13:00 – 14:00	Lunch provided by Baku State University

### 14:30 – 17:30 Events at the Azerbaijan Technical University

14:30 – 15:30	Tutorial Session
15:30 – 16:00	Coffee Break provided by AzTU
16:00 – 17:30	Tutorial Session

### 14:30 – 17:30 Events at the Institute of Information Technologies ANAS

14:30 – 15:30	Tutorial Session
15:30 – 16:00	Coffee Break provided by IIT ANAS
16:00 – 17:30	Tutorial Session

17:30 – 19:00	City Sightseeing Tour
19:00	Dinner

## 24 October 2013

Location: MOSCOW STATE UNIVERSITY BAKU BRANCH

09:30 – 10:00	Registration
10:00 – 11:30	Tutorial Session
11:30 – 12:00	Coffee Break
12:00 – 13:00	Tutorial Session
13:00 – 14:00	Lunch
14:00 – 15:30	Concurrent Technical Sessions
15:30 – 16:00	Coffee Break
16:00 – 17:30	Concurrent Technical Sessions

INTERNATIONAL INFORMATION SECURITY RESEARCH

## CONSORTIA MEETING

Location: MOSCOW STATE UNIVERSITY

09:30 – 10:00	Registration
10:00 – 11:30	Plenary Session
11:30 – 12:00	Coffee Break
12:00 – 13:00	Discussions
13:00 – 14:00	Lunch
14:00 – 15:30	Session
15:30 – 16:00	Coffee Break
16:00 – 17:30	Session

## COMPUTER ENGINEERING DEPARTMENTS CHAIRS SUMMIT

Location: QAFQAZ UNIVERSITY

09:30 – 10:00	Registration
10:00 – 11:30	Plenary Session
11:30 – 12:00	Coffee Break
12:00 – 13:00	Discussions
13:00 – 14:00	Lunch
14:00 – 15:30	Session
15:30 – 16:00	Coffee Break
16:00 – 17:30	Session
17:30 – 20:00	City Sightseeing Tour
20:00	BANQUET DINNER

## 25 October 2013

LOCATION: QAFQAZ UNIVERSITY

10:00 – 11:00	Invited talk
11:00 – 11:30	Coffee Break
11:30 – 13:00	Tutorial Session
11:00 – 13:00	Concurrent Technical Sessions
13:00 – 14:00	Lunch
14:00 – 17:00	Concurrent Technical Sessions
14:30 – 15:30	MUDEK Session
17:00 – 17:30	Closing Ceremony
17:00	Social Program



*AICT2013 International Conference*



OCTOBER, 2013

*Locations:*

**BAKU STATE UNIVERSITY  
INSTITUTE OF INFORMATION TECHNOLOGIES OF ANAS  
AZERBAIJAN TECHNICAL UNIVERSITY**

**23 October 2013**

**Location: BAKU STATE UNIVERSITY**

**10:00–10:30**  
**Hall: Main**

**WELCOMING AND OPENING CEREMONY**

**Professor Abel Maharramov (moder),**

*Baku State University Rector, Azerbaijan*

**Assoc.Prof. Abzetedin Adamov,**

*AICT2013 General Chair, Azerbaijan*

**Professor Mikayil Jabbarov,**

*Ministry of Education of Azerbaijan*

**Professor Ali Abbasov,**

*Ministry of Communications and Information  
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**Professor Akif Alizadeh,**

*President, Azerbaijan National Academy of Sciences  
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**Professor Nargiz Pashayeva,**

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**Professor Ahmet Sanich,**

*Qafqaz University Rector*

**Professor Havar Mamedov,**

*Azerbaijan Technical University Rector*

**Professor Rasim Alguliyev,**

*Director of Institute of Information Technologies of ANAS*

**Professor Esref Adali,**

*Informatics Association of Turkey (TBD), Turkey*

**Ilham Aslanov,**

*Director of IT and Communications Department of State Oil  
Company of Azerbaijan Republic (SOCAR)*

**10:30–11:30**  
**Hall: Main**

**KEYNOTE SESSION**

**Speaker: George Plosker**

*IEEE Client Services Manager, US*

**Title:** The IEEE Xplore Digital Library: Insider Tips and  
What's New.

**Speaker: Professor Vladislav Sherstyuk**

*Advisers to the Secretary of the Security Council of the  
Russian Federation. Director of Information Security  
Institute of Moscow State University, Russia*

**Title:** Priority Areas for International Cooperation in the

Field of International Information Security.

**11:30–12:00 Coffee Break**

**12:00–13:00 Keynote Session (continue):**

**Speaker: Professor Steven Skiena**  
*Department of Computer Science, Stony Brook University, US*  
**Title:** Word Embeddings for all the World's Languages

**Speaker: Dr. Jonghee Lee**  
*Member of NAEK (The National Academy of Engineering of Korea), Korea*  
**Title:** Leadership of ICT for Creative Economy

**13:00–14:00 Lunch provided by Baku State University**

**14:00–14:30 Baku State University Introductory Tour**

## **AFTERNOON – 23 October 2013**

**Location: AZERBAIJAN TECHNICAL UNIVERSITY**

**14:30–17:30**  
**Hall: Main**

**TUTORIAL SESSION**

**Speaker: Kamran Agayev**  
*Oracle Certified Master, Azercell Telecom LLC, Azerbaijan*  
**Title:** How to become an Oracle Certified Master.

**16:00–16:30 Coffee Break**

**Speaker: Assoc.Prof. Ahmet H. Koltuksuz**  
*Department of Computer Engineering, Yasar University, Turkey*  
**Title:** Establishing the Cyberspace Security Strategy.

## **AFTERNOON – 23 October 2013**

**Location: INSTITUTE OF INFORMATION TECHNOLOGIES ANAS**

**14:30–17:00**  
**Hall: Main**

**TUTORIAL SESSION**

14:30–15:30 **Speaker: Professor Levent Akin**  
*Dean of Faculty of Engineering, Bogaziçi University,  
Turkey*  
**Title:** Robots and Us: What kind of Social and Economical  
Future we can look forward to?

**15:30–16:00 Coffee Break**

16:00–17:00 **Speaker: Professor Agasi Melikov**  
*Computer Engineering Department, National Aviation  
Academy, Azerbaijan*  
**Title:** Methods to Calculate the Models of Multiservice  
Cellular Networks with Multiparametric Call  
Admission Control.

**AICT2013 International Conference**



**OCTOBER, 2013**

*Locations:*

**MOSCOW STATE UNIVERSITY BAKU BRANCH  
QAFQAZ UNIVERSITY**

**24 October 2013**

**Location: MOSCOW STATE UNIVERSITY BAKU BRANCH /  
QAFQAZ UNIVERSITY**

**INTERNATIONAL INFORMATION SECURITY RESEARCH  
CONSORTIA (IISRC) CONFERENCE**

**Location: MOSCOW STATE UNIVERSITY BAKU BRANCH**

09:30 – 10:00	Registration
10:00 – 11:00	Welcome Addresses
11:00 – 11:30	Session 1 - Rules and Norms of Responsible Behavior in Cyberspace
11:30 – 12:00	Coffee Break
12:00 – 13:00	Session 1 - Discussions
13:00 – 14:00	Lunch
14:00 – 15:30	Session 2 - Current activities of IISRC
15:30 – 16:00	Coffee Break
16:00 – 17:30	Session 2 - Discussions

17:30 – 20:00	City Sightseeing Tour
20:00	BANQUET DINNER

**10:00–11:30**  
**Hall: Main**

**TUTORIAL SESSION**

**Speaker:** **Iwona Maciejewska**  
*Chief Operations Officer position in TES2A Europe  
Innovation Consulting S.L., Spain*

**Title:** European Collaborating R&D Program (EUREKA) -  
FP7 & Horizon 2020.

**11:30–12:00** Coffee Break

**Speaker:** **Dr. Chang-Won Ahn**  
*Special Fellow of Electronics and  
Telecommunications Research Institute (ETRI), South  
Korea*

**Title:** Korean Experience in European Collaborating R&D  
Program. Korean International R&D Collaboration  
Program.

13:00–14:00 Lunch

14:00–17:30 CONCURRENT TECHNICAL SESSIONS

## SESSION 1. LATEST TRENDS IN ICT APPLICATION

Session Co-Chairs:

Time: 14:00–17:30

Hall: A

15:30–16:00 Coffee Break

### 1. NFC Loyal System on the Cloud

by Vedat Coskun, Busra Ozdenizci, Kerem Ok, Mohammed Alsadi, NFC Lab - Istanbul, Turkey

### 2. Distributed Systems for Software Engineering: Non-traditional Approachby

by Vaidas Giedrimas, Siauliai University, Siauliai, Lithuania

### 3. Towards Open and Interoperable Information Platforms for Mobile Users: RDF Methodology and Case Study

by Alfio Costanzo, Alberto Faro, Daniela Giordano, Department of Electrical, Electronics and Computer Engineering, University of Catania, Italy.

### 4. Experiential Approach to Creation and Use of Assets in Designing the Family of Software Intensive Systems

by Petr Sosnin, Computer Department, Ulyanovsk State Technical University, Ulyanovsk, Russia. Vladimir Maklaev, Computer Department, Ulyanovsk State Technical University, Ulyanovsk, Russia.

### 5. An Application of Weighted Fuzzy Soft Set Based Decision Making

by Metin Allahverdi, Beyşehir Ali Akkanat Vocational High School, Selcuk University, Beyşehir, Konya, Turkey, Humar Kahramanli, Computer Engineering, Technology Faculty, Selcuk University, Konya, Turkey.

### 6. Design of an Information Display Based on Several LED Matrices and a Single Microcontroller

by Amirgaliyev Yedilkhan, Suliyev Rassim, Bogdanchikov Andrey, Department of Computer Engineering, Suleymen Demirel University, Kaskelen, Kazakhstan. Niyazi ARI, R&D Head (retr.) of University of Technology, University of Technology Zurich, Zurich, Switzerland.

**7. An Access Selection Algorithm Based on GRA Integrated with FAHP and Entropy Weight in Hybrid Wireless Environment**

by Ding Zhang, Yu Zhang, Na Lv *Research Institute of Communication Technology Beijing Institute of Technology, Beijing, China.* Yibo He *Institute for Digital Communications, The University of Edinburgh, Edinburgh, UK.*

**8. Fast Calculation of 8×8 Integer DCT in the Software Implementation of H.264/AVC**

by Farzad Zargari, *Cyber Space Research Institute Formerly known as Iran Telecom Research Center (ITRC) End of North Kargar Street, Tehran, Iran,* Sedighe Ghorbani, *Dept. of Computer and Mechatronics Eng. Islamic Azad University Science and Research Branch, Tehran, Iran.*

**9. Parallel Matrix Multiplication for Various Implementations**

by Niyameddin Taghiyev, *Computer Engineering Department, Anadolu University, Eskisehir, Turkey.* Assist. Prof. M. Akcay, *Computer Engineering Department, Dumlupinar University, Kutahya, Turkey.*

**10. Signal Segmentation using Maximum a Posteriori Probability Estimator**

by Theodor D. Popescu, *National Institute for Research and Development in Informatics, Bucharest, Romania.*

**11. An Application of Hidden Markov Models in Subjectivity Analysis**

by Samir Rustamov, *Institute of Cybernetics of Azerbaijan National Academy of Sciences, Baku, Azerbaijan.* Elshan Mustafayev, *Institute of Cybernetics of Azerbaijan National Academy of Sciences, Baku, Azerbaijan.* Mark A. Clements, *Georgia Institute of Technology, Atlanta, USA.*

**12. A Mathematical Model For Finding The Rainbow Connection Number**

by Fidan Nuriyeva, *Onur Ugurlu Department of Mathematics, Ege University, Bornova, Izmir, Turkey,* Hakan Kutucu *Department of Computer Engineering, Karabuk University, Karabuk, Turkey.*

**13. Hybrid neuro-fuzzy classifier based on gaussian membership function**

by U. V. Kulkarni, *Professor and Head-Dept. of CSE SGGGS, Institute of Technology, Nanded, India.* S. V. Shinde, *Associate Professor- Dept. of IT Pimpri Chinchwad College of Engineering, Pune, India.*

**14. Learning Partially Observable Markov Decision Model with EM Algorithm**

by Hui Tan, Shaohui Ma, *School of economics and management Jiangsu University of science and technology, Zhenjiang, China.*

**15. Correctness of Production-Tabular Knowledge Bases**

by R.A. Karayev, N.Y. Sadikhova Institute of Cybernetics of the National Academy of Sciences of Azerbaijan, Baku, Azerbaijan.

**16. Install and Configure a Multinode Hadoop Cluster**

by Shamil Humbetov, Department of Computer Engineering, Qafqaz University, Baku, Azerbaijan.

**SESSION 5.  
COMMUNICATION, NETWORK AND HARDWARE**

Session Co-Chairs:

**Time: 14:00–17:30**

**Hall: B**

**15:30–16:00 Coffee Break**

**1. Smart TV Usage Extension Method using Screen Division and Virtual Network Computing**

by Baul Kim, Rustam Rakhimov Igorevich, Primov Eldor Ismoilovich, Yunjung Park, Dugki Min, Department of Computer, Information & Communications Engineering Konkuk University, Seoul, Korea.

**2. ACO Algorithms with Multi-core Implementation**

by Emin Kugu, Ozgur Koray Sahingoz, Department of Computer Engineering, Turkish Air Force Academy, Istanbul, Turkey.

**3. Modeling Interest Graph of Social Networks with User-Generated Tags**

by Peng Xu, Ke-jian Xia, School of Computer & Communication Engineering, University of Science and Technology Beijing (USTB), Beijing, China

**4. New Energy Aware Hierarchical clustering Protocol In Wireless Sensor Network**

by Ali Habiboghli, Rouhollah Mostafaei, Computer Engineering Department, Islamic Azad University, Khoy Branch, Iran. Vasif V. Nabiyev, Computer Engineering Department, Karadeniz Technical University, Trabzon, Turkey.

**5. A Load Balancing Method for Improving Fault Tolerance in Mesh Based Networks on Chip**

by Hamed Sadat Mehrizi, Esmaeil Zeinali, Dept. of Electrical, IT & Computer Sciences, Qazvin Branch, Islamic Azad University, Qazvin, Iran.

**6. Fast Adaptive Rate Control for Video Data Transmission over HSDPA networks**

by Mehdi Abolfathi, *Electrical and Computer Engineering Department, Isfahan University of Technology, Isfahan, Iran.* Mohammad Ghiamy, *Electrical Engineering Department, Islamic Azad University, Ardabil Branch, Ardabil, Iran.*

**7. Towards Green and Secure Vehicle-to-Vehicle Communications: A Protocol for Establishing The Network.**

Ali Boyacı, Erdinc Ozturk, *Istanbul Commerce University, College of Engineering and Design, Department of Electrical–Electronics Engineering.* Serhan Yarkan, *Istanbul Commerce University, Information Technologies Research and Development Center.* Abdul Halim Zaim, *Istanbul Commerce University, College of Engineering and Design, Department of Computer Engineering.*

**8. The Effects of Orbital Parameters Accuracy on Doppler Frequency Shift for Intersatellite Optical Communication**

by Umit C. YILMAZ, İsmail H. CAVDAR, *Karadeniz Technical University, Trabzon, TURKEY.*

**9. Development of HLA-DDS Wrapper API for Network-Controllable Distributed Simulation**

by Yunjung Park, Dugki Min, *Department of Computer, Information & Communications Engineering Konkuk University, Seoul, Korea .*

**10. Performance Evaluation for Network Systems**

by Chiang Kao, *Department of Industrial and Information Management National Cheng Kung University Tainan 701, Taiwan, Republic of China.*

**11. Modeling of cloud computing security using Kolmogorov Complexity.**

by Medhat Mousa, *Faculty of Computer Technologies and Engineering, International Black Sea University Tbilisi, Georgia.*

**12. Evaluating Mobility Anchor Points in IPCM using MIPv6**

by Dr.Venkadesh.R. *Vice-Principal, Department of ECE, Vel Tech Engineering College, Chennai-62, India.* V.Nehru, *Assistant Professor Vel Tech Engineering college, Department of CSE, Chennai-62,India.* Dr.K.Rajan, *Principal, Vel Tech Engineering college, Chennai-62. India.*

**13. Calculation of the Electromagnetic Field of the Microwave of Devices With Use of Method FDTD and Integral Kirchhoff**

by Islam Jamal Islamov, Akif Safarxan Asgarov, *Azerbaijan Technical University, Electrodynamics and radioelectronic means chair, Baku, Azerbaijan.*

**14. Algorithms for Mobile Ad hoc Networks**

by Seyed Hossein Hosseini Nazhad Ghazani, *Department of Computer Engineering, Ahar Branch Islamic Azad University, Ahar, Iran.*

**15. Queuing Model Of Heterogeneous Local Network With S-V-D Type Combined Access Protocol**

by *Elchin Gezalov, Switching systems and postal Communication Department Azerbaijan Technical University Baku, Azerbaijan.*

**16. Research of Efficiency of Multiservice Communications Networks with Use of Signaling System and Protocols**

by *H.A.Mammadov, B. G. Ibrahimov. Azerbaijan Technical University, Baku, Azerbaijan*

**SESSION 6.**

**ICT IN BUSINESS ADMINISTRATION, FINANCE AND ECONOMY**

**Session Co-Chairs:**

**Time: 14:00–17:30**

**Hall: C**

**15:30–16:00 Coffee Break**

**1. Finding Cuts Point of Textile Products Using Blob Analysis Method**

by *M. Fatih ADAK, Gozde YOLCU, U.Baris RUZGAR, Nejat YUMUSAK Faculty of Computer and Information Sciences, Department of Computer Engineering Sakarya University, Sakarya, Turkey.*

**2. Forecasting Household Natural Gas Consumption with ARIMA Model: A Case Study of Removing Cycle**

by *Mustafa Akpınar, Nejat Yumusak, Dept. of Computer Science & Engineering University of Sakarya ,Sakarya, Turkey.*

**3. An Arduino Based System Provided with GPS/GPRS Shield for Real Time Monitoring of Traffic Flows**

by *Alfio Costanzo, Department of Electrical, Electronics and Computer Engineering, University of Catania, Viale Andrea Doria , Italy.*

**4. The Experience of NoSQL Database in Telecommunication Enterprise.**

by *Tuncay Yigit, Mehmet Akif Cakar, Asim Sinan Yuksel, Department of Computer Engineering, Suleyman Demirel University, Isparta, Turkey .*

**5. The functions of knowledge manager in the enterprise.**

by *Maslov A.V. Yurga's Technological Institute (branch) National Research Tomsk Polytechnical University t. Yurga, Kemerovo region, Russia.*

**6. The ICT Products Prices and Quantities Optimization.**

by Dmitry Chistov, Eugene Shuremov , Financial University under the Government of the Russian Federation, Moscow, Russia. Alexey Zalozhnev, Institute of Control Sciences, Russian Academy of Sciences, Moscow, Russia .

**7. Data Mining in Insurance Claims (DMICS) Two-way mining for extreme values**

by Sofia Aftab, Waseem Abbas, Muhammad Musa Bilal, Tauqir Hussain, Muhammad Shoaib, Syed Hamza Mehmood, Protégé Global, Ground Floor, Evacuee Trust Complex, Agha Khan Road, F-5/1, Islamabad, Pakistan, Business Intelligence (BI) Department, Protégé Global, Islamabad, Pakistan.

**8. Some Aspects of Development of Management Mechanisms of Innovative Technoparks**

by Ph.D. in Economics A.G.Aliyev, R.O.Shahverdiyeva ,Institute of Information Technology of ANAS, Republic of Azerbaijan, Baku.

**9. ICT in Agricultural Sustainability and Food Security**

by Bello O.A, Department of Computer Science, Adekunle Ajasin University, Akungba, Akoko, Ondo state, Nigeria.(corresponding Author). Aderbigbe F, Department of Mathematical Science, Ekiti State, University, Ado-Ekiti, Ekiti State Nigeria.

**10. Optimization of Environmental Monitoring Principles along Oil and Gas Pipelines using GIS and Remote Sensing**

by Emil Bayramov, Institute of Cartography Dresden University of Technology Dresden, Germany

**11. Valuations of Adaptive Methods for Filtering Out High-Noise in Oil Complexes Telemetry Systems**

by Dr. O. Ustun, Dr. M. Yilmaz, Electrical Electronics Faculty, ITU Istanbul, Turkey. Prof. H.Mamedov, Electrical Electronics Faculty, Az.TU Baku, Azerbaijan,. Prof. P. Ali Zada, (corres) Prof. R. Nejat Tuncay, Engineering Faculty, OKAN University, Istanbul, Turkey.

**12. Unsuccessful E-Commerce Stories Dotcom Boom**

by Bekir Güler Assistant Master Student at Computer Science, Fatih University, Istanbul, Turkey. Prof. Kadir Tufan , Head of Computer Science, Fatih University, Istanbul, Turkey.

**13. Robust control of industrial robots (IR) at different types of uncertainty**

by H.A.Mammadov V.Q. Farhadov. The Azerbaijan Technical University Baku, Azerbaijan.

**14. Presenting a Butterfly Ecosystem for Digital Entrepreneurship Development in Knowledge Age**

by Rahim Rashidi, Department of Computer, Boukan Branch, Islamic Azad University, Boukan, Iran. Saeid Yousefpour, Yalda sani, Department of Computer, Boukan Branch, Islamic Azad University, Boukan, Iran. Shadi Rezaei, Young Researchers club, Boukan Branch, Islamic Azad University, Boukan, Iran.

**15. A system of Assessment Indicators of the Development Level of Information Economy**

by Ph.D. in Economics A.G.Aliyev, A.S.Aliyeva, Institute of Information Technology of ANAS AZ1141, Republic of Azerbaijan, Baku.

**SESSION 7.**

**ICT IN GOVERNANCE AND GOVERNMENT POLICY MAKING**

**Session Co-Chairs:**

**Time: 14:00–17:30**

**Hall: D**

**15:30–16:00 Coffee Break**

**1. Evaluation of Typical GSM Installations with ITU K.52 Recommendation: On Complying with Limits for Human Exposure to Electromagnetic Fields**

by H. Alamdari Ilkhchi, East Azerbaijan Telecom Co. (EATC), Tabriz, Iran.

**2. Evaluation of Federated Database for Distributed Applications in e-Government**

by Carmelo Pino, Salvatore Ravidà and Santo Scibilia, Department of Electrical, Electronics and Computer Engineering, University of Catania, Catania, Italy.

**3. The Role of Innovation for Developing the ICT Sector in Sudan: a Literature Review**

by Prof. Nader Nada, Fatih University, Faculty of Engineering, Istanbul, Turkey. Nadir Ahmed Gaylani, Sudan University of Science, Technology, Faculty of Computer Science and, Information Technology, Khartoum, Sudan.

**4. Information and Communication Technology Policy Framework for Improving Rice Farmers in Thailand**

by Norrasing Sangbuapuan School of Engineering and Technology Asian Institute of Technology, Pathumthani, Thailand.

**5. Conceptual Views on Management Mechanisms of E-Government**

by Farhad Yusifov, Institute of Information Technology of ANAS, Baku, Azerbaijan.

**6. The Use of E-Commerce in Small and Medium-Sized Enterprises**

by Vedat YILMAZ, Fatih University, Turkey.

**7. An Application of Extreme Value Theory to E-Government Information Security Risk Assessment.**

*by Yadigar Imamverdiyev, Institute of Information Technology of Azerbaijan National Academy of Sciences (ANAS) Baku, Azerbaijan.*

**8. Intersection road accident analysis using Geographical Information Systems: Antalya (Turkey) example.**

*by Ela ERTUNÇ, Ömer MUTLUOĞLU, Tayfun ÇAY, Geomatics Engineering Selcuk University Konya, Turkey.*

**20:00 BANQUET DINNER**

**COMPUTER ENGINEERING DEPARTMENTS  
CHAIRS SUMMIT  
(only invited)**

**Location: QAFQAZ UNIVERSITY**

<b>09:30 – 10:00</b>	<b>Registration</b>
<b>10:00 – 11:30</b>	<b>Plenary Session</b>
<b>11:30 – 12:00</b>	<b>Coffee Break</b>
<b>12:00 – 13:00</b>	<b>Discussions</b>
<b>13:00 – 14:00</b>	<b>Lunch</b>
<b>14:00 – 15:30</b>	<b>Session</b>
<b>15:30 – 16:00</b>	<b>Coffee Break</b>
<b>16:00 – 17:30</b>	<b>Session</b>
<b>17:30 – 20:00</b>	<b>City Sightseeing Tour</b>
<b>20:00</b>	<b>BANQUET DINNER</b>

**AICT2013 International Conference**



**OCTOBER, 2013**

*Location:*  
**QAFQAZ UNIVERSITY**

**25 October 2013**

**Location: QAFQAZ UNIVERSITY**

**10:00–11:00**  
**Hall: Main**

**INVITED TALK SESSION**

**Speaker:** **Professor Steven Skiena**  
*Department of Computer Science, Stony Brook  
University, US*  
**Title:** Algorithms for Real-Life Applications

**11:00–11:30** **Coffee Break**

**11:30–13:00**  
**Hall: A128**

**TUTORIAL SESSION**

**Speaker:** **Professor Nader Nada**  
*Fatih University, Turkey*  
**Title:** How to Promote Innovation in ICT Sector in  
Developing Countries?

**13:00–14:00** **LUNCH**

**Speaker:** **Prof. A. Erbil Payzin**  
*Chair of the MÜDEK Executive Board, Association  
for Evaluation and Accreditation of Engineering  
Programs (MÜDEK), Turkey*  
**Title:** Perspectives of the Professional Engineering  
Association in Azerbaijan.

**12:00–17:00** **CONCURRENT TECHNICAL SESSIONS**

**SESSION 2. / 3.**  
**BIG DATA MANAGEMENT AND APPLICATION /**  
**DATA MINING AND DATA ENGINEERING**

**Session Co-Chairs:**

**Time: 12:00–17:00**

**Hall: A**

**13:00–14:00** **Lunch**

**15:30–16:00 Coffee Break**

**1. Speech Retrieval Using a Single Ergodic Hidden Markov Model**

by *Asif Ali, Samir Rustamov, and Mark A. Clements*, Center for Signal and Image Processing, School of Electrical and Computer Engineering Georgia Institute of Technology, Atlanta, USA.

**2. The CPS with the Hadoop Ecosystems**

by *Yoojin Lim, Eunmi Choi*, Graduate School of Business IT Kookmin University, Seoul, Republic of Korea.

**3. Road Traffic Big Data Collision Analysis Processing Framework**

by *Duckwon Chung, Xuhua Rui, Dugki Min* School of Computer Science and Engineering Konkuk University Seoul, Korea, *Hwasoo Yeo*, Dept. Civil and Environmental Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea.

**4. A study for Performance Comparison of Different In-Memory Databases**

by *Sule Gunduz Oguducu*, Istanbul Technical University, Computer Engineering, Istanbul, Turkey. *Mehmetcan Gayberiy, Erhan Akpinary, Hakan Kutluayy* Idea Teknoloji Cozumleri, Istanbul, Turkey.

**5. Named Entity Recognition on Real Data: A Preliminary Investigation for Turkish**

by *Gökhan Çelikkaya*, R&D Department, Huawei Technologies Co. Ltd, Istanbul, Turkey. *Dilara Torunoğlu*, Institute of Science and Technology, Istanbul Technical University, Istanbul, Turkey. *Gülşen Eryiğit*, Dep. of Computer Engineering, Istanbul Technical University, Istanbul, Turkey.

**6. Simulation Based Multiple Regression Analysis of Fuzzy Logic Crowd Injury Model**

by *Emin Kugu, Ozgur Koray Sahingoz*, Department of Computer Engineering, Turkish Air Force Academy, Istanbul, Turkey.

**7. Good Practice of Data Modeling and Database Design for UMIS. Course Registration System Implementation**

by *Abzətdin Adamov, Shamil Mehdiyev, Etibar Seyidzade*, Qafqaz University, Baku, Azerbaijan.

**8. Learning Partially Observable Markov Decision Model with EM Algorithm**

by *Hui Tan, Shaohui Ma*, School of economics and management Jiangsu University of science and Technology Zhenjiang, China.

**9. Overview Popular Graph Databases**

by Ravinsingh Jain, Srikanth Iyengar and Ananyaa Arora, University of Mumbai.

**10. Construction of Smart Middleware System to support Incomplete Data based on WSN**

by Ryum-Duck Oh, Kwang-Won Lee, Department of Software Korea National University of Transportation, Korea. Joon-Hoon Park Department of Control and Instrumentation Engineering, Korea.

**11. Combining Temporal Information with User Query in Search Engine**

by Zhe Wang, College of Information Science and Technology, Donghua University, Shanghai, China. Shan Jiang, Institute of Information Technology, Henan University of Traditional Chinese Medicine, Zhengzhou, China.

**12. Design of Robust Control Systems for Objects with Internal Delay**

by Havar Mamedov, Gazanfar Rustamov, Azerbaijan Technical University, Baku, Azerbaijan.

**13. An Advanced Channel Compensation Method for Speaker Recognition**

by Yadiqar Imamverdiyev, Lyudmila Sukhostat Institute of Information Technology of Azerbaijan National Academy of Sciences, Baku, Azerbaijan.

**14. A framework for integrative analysis of transcriptional and post-transcriptional gene regulation**

by Hasan Oğul, Giray S. Özcan, Department of Computer Engineering, Başkent University, Ankara, Turkey.

**15. A Priority Based Multi-agent Approach for Farsi Handwritten Digit Recognition Application**

by Mohammad Reza Yeganehzad, Babak Abdollahzade, Jamashid Bagherzadeh, Dept. of Computer and IT Engineering, Urmia University of Technology, Urmia, Iran.

**16. Maplet for Linear Fredholm Integral Equations of Second Kind (FIESK)**

by Isa Muslu, Ph.D. The Department of Applied Mathematics and Computer, International Atatürk-Alatoo University, Bishkek, Kyrgyzstan. Moussa Mahamat Boukar, Ph.D. The Department of Computer Engineering, Nigerian Turkish Nile University, Abuja, Nigeria.

**17. Signal Denoising Based on Wavelet Transform Using a Multi-Level Threshold Function**

by Mohammad Ashouri Golroudbari, Department of Electrical and Computer Engineering, University of Tabriz, Tabriz, Iran.

**18. The Method of Concept Formation for Semantic Search**

by Manana Khachidze, Maia Archuadze, Gela Besiashvili, I. Javakhishvili Tbilisi State, University, Faculty of Exact and Natural Sciences, Universities str.3, Tbilisi, Georgia.

**19. A Modified Hybrid RQD Demapper based on Novel Hard to Soft Assigning Algorithm**

by Mona Z. Saleh, Mirette Sadek, Salwa H. El Ramly, Electronics and Communications Engineering Department Ain Shams University, Cairo, Egypt.

**SESSION 4.  
CYBER SECURITY ISSUES**

**Session Co-Chairs:**

**Time: 12:00–17:00**

**Hall: B**

**13:00–14:00 Lunch**

**15:30–16:00 Coffee Break**

**1. Benefits of the Virtualization Technologies with Intrusion Detection and Prevention Systems**

by Murat Çalışkan, Mustafa Özsiginan, Emin Kugu, Aeronautics and Space Technologies Institute, Turkish Air Force Academy, Istanbul/Turkey .

**2. Information Security: To determine its Level of Awareness in an Organization**

by Adetokunbo Bashorun MRC Unit The Gambia IT Department, MRC Unit The Gambia, Banjul, The Gambia. Archbald Worwui & David Parker MRC Unit The Gambia Data Management, MRC Unit The Gambia, Banjul, The Gambia.

**3. Architecture of an Intelligent System for Information Security Management**

by Zafar Jafarov, Department of Information Technology and Software Azerbaijan Technical University, Baku, Azerbaijan.

**4. Dishonest Node Identification for Key Sharing Systems through Distributed Key Generation**

by Tuğçe KALKAVAN, Ahmet KOLTUKSUZ, Faculty of Engineering, Department of Computer Engineering, Yaşar University, Izmir, Turkey.

**5. Eye Tracking Recognition-based Graphical Authentication**

by Mihajlov Martin, Trpkova Marija, Faculty of Economics Ss. Cyril and Methodius University Skopje, Macedonia . Arsenovski Sime, Faculty for Information Science FON University Skopje, Macedonia.

**6. An Information Security Incident Prioritization Method**

by *Yadigar Imamverdiyev, Institute of Information Technology Azerbaijan National Academy of Sciences Baku, Azerbaijan.*

**7. On Current Trends in Security and Privacy of Cloud Computing**

by *Asst. Prof. Dr. Serap Şahin, Department of Computer Engineering Izmir Institute of Technology, Izmir, Turkey.*

**SESSION 8.**

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

**Session Co-Chairs:**

**Time: 12:00–17:00**

**Hall: C**

**13:00–14:00 Lunch**

**15:30–16:00 Coffee Break**

**1. Preparing of the National University Ranking of Azerbaijan Universities**

by *Arshad Mammadov, National Aviation Academy, Baku, Azerbaijan.*

**2. Position of Azerbaijan Universities in International Rankings**

by *Arshad Mammadov, National Aviation Academy Baku, Azerbaijan.*

**3. Social Networks Role in Online Education**

by *Asaf Varol, Naveed Ahmed Firat University, Dept. of Software Engineering Elazig, Turkey.*

**4. Labeling Turkish News Stories with CRF**

by *Seda Kazkilinc, Esref Adali, Istanbul Technical University Istanbul, Turkey.*

**5. Foundations and Educational Application of Real Time Operating System**

by *Mustafa Kıyar, Department of Computer Engineering, Kocaeli University, Turkey. Yaşar Becerikli, Department of Computer Engineering, Yalova University, Turkey.*

**6. Methodology of Laboratory Workshops on Computer Modeling with Programming in Microsoft Excel Visual Basic for Applications**

by *S.T.Huseynov, Faculty of Mathematics & Informatics, Dept. of Informatics, Ganja State University (GSU), Ganja city, Azerbaijan Republic.*

**7. Digital Environment in Further Education: Case of a Project Realization**

by Jozef Polák , *Department of Technology and Information Technologies Constantine the Philosopher University in Nitra, Nitra, Slovak Republic*  
Tomáš Polák , *E-learning and Educational Support Department ,Financial Directorate of the Slovak Republic , Slovak Republic.* Ján Záhorec, *Department of Informatics Slovak University of Agriculture in Nitra, Slovak Republic.*  
Alena Hašková, *Department of Technology and Information Technologies, Constantine the Philosopher University in Nitra , Nitra, Slovak Republic.*

**8. Vision For Scientific Results Of Universities In Azerbaijan**

by A.M.ABBASOV, *Minister, Ministry of Communications and Information Technologies,Baku, Azerbaijan.* A.H.HAJIEV, *Probability and Statistics dept. Institute of Cybernetics of ANAS,Baku, Azerbaijan.* S.A.SHABANOV *Econometrics dept. Research Institute of Economic Studies, Azerbaijan State University of Economic.*

**9. Probabilistic - Statistical Methods Of The Decision Tasks Of The Theory Of Fuzzy Sets**

by T.Q.Rzayev, *The Azerbaijan Technical University , Baku, Azerbaijan .*

**10. Terminal control in one heat conduction equation with delay**

by E.I. Azizbayov, *Computational mathematics, Baku State University, Baku, Azerbaijan.*

**11. On Solutions of Initial-Boundary Value Problem for Fuzzy Partial Differential Equations**

by N. A. Gasilov, *Baskent University, Turkey.* S. E. Amrahov, *Ankara University, Turkey.* A. G. Fatullayev, *Baskent University, Turkey.*

**12. Virtual World for Education and Entertainment**

by Ravinsingh Jain, *Srikanth Iyengar, and Ananyaa Arora Mumbai University, India.*

**13. On Some Problems of the Creation and Development of Green Technologies in Azerbaijan**

by Aghamehdi Mehdiyaliev, *Academy of Public Administration, Baku, Azerbaijan.* Ophelia Mazanova, *Azerbaijan State University, Baku, Azerbaijan.*

**14. Optimal Journey Planning Depending on Distance and Passenger Density Parameters**

by Efendi Nasibov, *Murat Ersen Berberler, Ahmet Can Diker, Can Atilgan Department of Computer Science, Dokuz Eylul University Izmir, Turkey.*

**15. NFC: A Surveillance System for Preventing and Controlling Air Pollution**

by *Mohsen Yaghoubi Suraki, Department of IT and Computer Engineering, Qazvin Branch, Islamic Azad University, Qazvin, Iran.*

**16. Construction of periods for  $3x+1$  problem, Use of division algorithm by 2 in 3-base number system for construction of 3-adic numbers as periods of Collatz sequence**

by *Yaqub Aliyev, Vugar A. Suleymanov (Masters Student) , Qafqaz University, Azerbaijan .*

**17. Supernumbers with interesting divisibility properties**

by *Asgar Javadov, Qafqaz University, Baku, Azerbaijan.*

**18. Strategy of The Distance Education**

by *Fatma Khanim Bunyatova, Intellect School, Baku, Azerbaijan. Gulbala Salamov, Department of Computer Education & Instructional Technology, METU. Ankara, Turkey.*

**19. Modeling Waves of Electromagnetic Fields Over Microwave Devices on The Basis of the Program Matlab**

by *prof. H.A.Mamedov, prof. E.G.Ismibeyli, s/l Y.G.Gaziye, Azerbaijan Technical University, Baku, Azerbaijan*

**SESSION 9.  
ICT IN MEDICINE AND HEALTH CARE**

**Session Co-Chairs:**

**Time: 12:00–17:00**

**Hall: D**

**13:00–14:00 Lunch**

**15:30–16:00 Coffee Break**

**1. Real-Time Monitoring For Recovery of Gastrointestinal Tract Motility Detection After Abdominal Surgery Real-Time Monitoring For Recovery of Gastrointestinal Tract Motility Detection After Abdominal Surgery**

by *Umit Deniz Ulusar, Murat Canpolat, Muhittin Yaprak, Seyfettin Kazanir, Guner Ogunc Akdeniz University ,Antalya, Turkey.*

**2. Computer Study of Spatial and Electronic Structure of the C-terminal Pentapeptides of Hemokinin-1 Molecules**

by *G.A. Agaeva, U.T.Agaeva, N.M.Godjaev, Institute for Physical Problems, Baku State University , Baku, Azerbaijan. N.M.Godjaev, Qafqaz University, Azerbaijan.*

**3. A Fuzzy Expert System Design For Iron Deficiency Anemia**

by Ahmet Yilmaz, *Computer Technologies Branch, Batman Vocational High School, Batman University, Batman, Turkey.* Mehmet Dagli, *Department of Hematology, Faculty of Medicine, Selcuk University, Konya, Turkey.* Novruz Allahverdi, *Department of Computer Engineering, Technology Faculty, Selcuk University, Konya, Turkey.*

**4. Internet of Things and its Benefits to Improve Service Delivery in Public Health Approach**

by Mohsen Yaghoubi Suraki, *Department of IT and Computer Engineering, Qazvin Branch, Islamic Azad University, Qazvin, Iran.* Mohsen Jahanshahi, *Department of Computer Engineering, Central Tehran Branch, Islamic Azad University, Tehran, Iran.*

**5. Technology Therapy for Obsessive-Compulsive Disorder Based on Internet of Things**

by Mohsen Yaghoubi Suraki, *Department of Electrical, IT and Computer Engineering Islamic Azad University, Qazvin Branch. Qazvin, Iran.* Morteza Yaghoubi Suraki, *Department of Human Science, Islamic Azad University, Sari Branch, Sari, Iran.*

**6. Computer Simulation of the Schistostatin-10 Molecule Using the Molecular Dynamics method in Various Force Fields**

by Niftali M. Godjajev, *Qafqaz University, Baku State University, Baku, Azerbaijan.* Baba M. Qasimov, *Qafqaz University, Baku, Azerbaijan.*

**7. Application of Computer Programms in Investigation of Spatial Structure of Biomolecules**

by G.A. Akverdieva *chief scientific researcher Institute for Physical Problems Baku State Universit Baku, Azerbaijan*

13:00–14:00 LUNCH

17:00 CLOSING CEREMONY

**26 October 2013**  
**SOCIAL PROGRAM**