5th International Conference on

APPLICATION of INFORMATION and
COMMUNICATION TECHNOLOGIES

CONFERENCE PROGRAM

12-14 October, Baku, Azerbaijan

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Muhammet Cinsdikici, *Ege University, Turkey*

12 October 2011
LOCATION: QAFQAZ UNIVERSITY

08:30 – 10:00	Registration
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
14:00 – 15:30	Concurrent Tutorial Session
14:00 – 17:30	Concurrent Session
15:00 – 15:30	Coffee Break
19:00	Dinner

13 October 2011
LOCATION: BAKU STATE UNIVERSITY / INSTITUTE OF INFORMATION TECHNOLOGIES OF ANAS

08:30 – 16:00	Events at Baku State University
08:30 – 09:30	Registration
09:30 – 11:00	Keynote Session
11:00 – 11:30	Coffee Break
11:30 – 16:00	Concurrent Sessions
13:00 – 14:00	Lunch
11:30 – 16:00	Events at Institute of Information Technologies
11:30 – 13:00	Concurrent Tutorial Session
13:00 – 14:00	Lunch
14:00 – 16:00	Concurrent Sessions
15:00 – 15:30	Coffee Break
19:00	Banquet Dinner

14 October 2011
LOCATION: QAFQAZ UNIVERSITY

09:30 – 10:00	Invited talk
10:00 – 13:00	Tutorial Session
10:00 – 13:00	Concurrent Sessions
11:00 – 11:30	Coffee Break
13:00 – 14:00	Lunch
14:30 – 15:30	Closing Ceremony
15:30	Social Program

12 October 2011
LOCATION: QAFQAZ UNIVERSITY

10:00–10:30 Hall: Main	WELCOMING AND OPENING CEREMONY

Professor Ahmet Sanic,
Qafqaz University Rector, Azerbaijan
Professor Misir Mardanov,
Ministry of Education of Azerbaijan
Ali Abbasov,
Ministry of Communications and Information Technologies of Azerbaijan
Professor Abel Maharramov,
Baku State University Rector, Azerbaijan
Khakim A. Mukhitdinov,
Tashkent University of Information Technology Rector
Dendev Badarch,
Director of the UNESCO Office in Moscow
Ali Agan,
President of Azercell Telecom, Azerbaijan
Professor Rasim Alguliyev,
Director of the Institute of Information Technologies of ANAS

10:30–11:30 Hall: Main	KEYNOTE SESSION

Speaker: **Professor Ali M. Abbasov**
Minister of Communications and Information Technologies of the Republic of Azerbaijan
Title: Information Boom: Problems and Perspectives

Speaker: **Professor Rasim M. Alguliyev**
Director, Institute of Information Technology of Azerbaijan National Academy of Sciences (ANAS), Azerbaijan
Title: Theoretical Problems of E-Government Formation and the Solution Perspectives.

Speaker: **Professor Victor Kureichik**
Vice Rector for Research and Graduate Studies, Taganrog Institute of Technology, Southern Federal University, Russia
Title: Methods Inspired by Natural Systems

11:30–12:00	**Coffee Break**

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

Speaker: **Dendev Badarch**
Director of the UNESCO Office in Moscow
Title: Digital Natives in a Knowledge Society: Emerging technologies require new competencies of teachers and learners

Speaker: **Professor Adnan Yazici**
Chair of Department of Computer Engineering
Middle East Technical University, Turkey
Title: "Semantic Content Extraction and Querying of Multimedia Data"

Speaker: **Professor Jean Gabriel REMY**
IEEE Member of the Board and Region 8
Director for 2007-2008, General Engineer, France
Title: "Short Congratulation Speech on the Establishment of the IEEE Azerbaijan Chapter"

13:00–14:00	Lunch

14:00–15:00	Concurrent Tutorial Session:

Hall: Main   *Speaker:* **Professor Jean Gabriel REMY**
IEEE Member of the Board and Region 8
Director for 2007-2008, General Engineer, France
Title: Home Area Network and Energy Management

Hall: A   *Speaker:* **Professor Valery Sklyarov**
Head of Laboratory "Embedded systems, computing and control" University of Aveiro / IEETA, Portugal
Title: FPGA-based Systems in Information and Communication

15:00–15:30	Coffee Break

15:30–17:30	CONCURRENT SESSIONS:

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SESSION 1.1.
ICT IN BUSINESS ADMINISTRATION,
FINANCE AND ECONOMY

Session Co-Chairs: Prof. Dr. Nader NADA, Dr. Lyazzat Atymtayeva

Time: 15:30–17:30   **Hall: Main**

1. **The Role of Informational Technologies in Modern Business and Financial Sector**
   by N. N. Zhozhuashvili, Organization of Nugzari, Georgia

2. **The Study of Customer Relationship Management Method**
   by Heresh Beyadar, Khaland Gardali, Islamic Azad University, Iran

3. **Approach to e-commerce**
   by F. Sameni Keivani, M. Jouzbarkand, M. Khodadadi, Islamic Azad University, Iran

4. **A Learning Automaton Based Approach to Solve the Graph Bandwidth Minimization Problem**
   by Ali Safari Mamaghani, Islamic Azad University, Bonab Branch, Iran; Mohammad Reza Meybodi, Computer Engineering Department AmirKabir University of Technology, Iran

5. **A General Model of Accounting Information Systems**
   by Metin Allahverdi, Beyşehir Ali Akkanat Vocational High School, Selcuk University, Turkey

6. **Key Trends and Prospects of Agribusiness Management**
   by Nino Paresashvili, Ivane Javakhishvili state university, Georgia

7. **CRM – Marketing – Tool For Increasing Competition And Profitability For Modern Company**
   by Devi Shonia, Sokhumi State University, Georgia

8. **Managing Procurement Risk in Turkey: Perceptions and Hedging**
   by Cağrı Haksoz, Operations Management Faculty, Sabanci University, Turkey

9. **Network as a Subsystem of Knowledge Management for Enterprise**
   by Maslov A. V, Yurga's Technological Institute, Branch of the National Research Tomsk's Polytechnical University, Russia

10. **Formal Ontologies for Data-Centric Business Process Management**
    by Iman Poernomo, Department of Informatics, King's College London, UK; Timur Umarov Department of Computer Engineering, Kazakh-British Technical University, Kazakhstan; Fuad Hajiyev Department of Higher, Mathematics and Cybernetics, Kazakh-British Technical University, Kazakhstan

11. **The Use of Wiki Technology in Electronic Parliament Activity**
    by Aygun Ahmadova, The Institute of Information Technologies of ANAS, Azerbaijan

12. **In Scope Of Market Surveillence And Inspection, Specific Absorption Rate (SAR) Tests For Mobile Phones in Turkey**
    by Yahya Emre Gulersoy, ICTA, Turkey

13. **Development of Intelligent Systems for Information Security Auditing and Management:Review and Assumptions Analysis**
    by Lyazzat Atymtayeva, Assel Akzhalova, Kanat Kozhakhmet, Lyazat Naizabayeva, Kazakh-British Technical University, Kazakhstan

14. **Technological solution for accounting problems of foreign investors**
    by Aydin Ciftci, Accounting High School, Manas University, Kirgizstan

SESSION 2.
ICT IN GOVERNANCE AND GOVERNMENT POLICY MAKING

Session Co-Chairs: Doç. Dr. Halit Oğuztüzün, Dr. Fuad Hajiyev, Dr. Timur Umarov

Time: 15:30–17:30   **Hall: A**

1. **Combination of IT Strategic Alignment and IT Governance to Evaluate Strategic Alignment Maturity**
   by S. Hosseinbeig, D. Karimzadgan Moghadam, D. Vahdat, Payame Noor University, Iran

2. **ICT as an Enabler of Socio-Economic Development**
   by Attique Ahmad, Deputy Director of PITC, Pakistan

3. **Conceptual Framework FOR e-Local Council (E-LC) System**
   by Adam A. Alli, Lecturer, Moslem University, Uganda

4. **Knowledge Management in Organizations**
   by Herish Beyadar, Khalnd Gardali, Islamic Azad University, Iran

5. **Some conceptual views on information security of the society**
   R. M. Alguliev, Y. N. Imamverdiyev, F. F. Yusifov, Institute of Information Technology of ANAS, Azerbaijan

6. **Conceptual Evaluation E-Commerce, Objectives and the Necessary Infrastructure**
   by M. Khodadadi, M. Jouzbarkand, F. Sameni Keivani, Islamic Azad University, Iran

7. **Transforming Cross-tree Relations Involving Attributes into Basic Constraints in Feature Models**
   by Ahmet Serkan Karatas, Halit Oğuztüzün, Ali Doğru, Department of Computer Engineering, Middle East Technical University, Turkey

8. **Mobile Police Service in Mobile Government**
   by Hamid-Reza Firoozy-Najafabadi, Science and Research Branch, Islamic Azad University, Iran; Saeid Pashazadeh, Tabriz university, Iran

9. **Conceptual Approach to E-Government, Targets and Barriers Facing Its**
   by M. Jouzbarkand, M. Khodadadi, F. Sameni Keyvani,
   Islamic Azad University, Iran

10. **Competition between Two Political Parties**
    by Anton Soloi, Lucian Ştefăniă Grigore, Adrian Beteringhe,
    University of South-East Europe LUMINA, Romania

11. **Issues of Management of ICT-technology Parks**
    by R. O. Shahverdiyeva, Institute of Information Technology of ANAS,
    Azerbaijan

12. **Digital Graphical Signature**
    by B. T. Kabulov, Chief specialist, Joint-stock company, Uzbekistan; N. B.
    Tashpulatova, Informatics and Computer Graphics Department, G. Ikramova,
    Taskent University of Information Technologies, Uzbekistan

13. **A New Manual Material Picking Process for High Volume / NonSerialized**
    Small Parts Orders
    by Kemal Taljanovic, Alica Pandzo, University SSST, Bosnia and Herzegovina;
    Adnan Salihbegovic, University of Sarajevo, Bosnia and Herzegovina

14. **Electronic Document Flow in E-Government**
    by Elchin Mahmudov, Sinam Company, Azerbaijan

15. **Navigation System based on Online GIS**
    by Dmitriy Qax, Sinam Company, Azerbaijan

SESSION 3.
ICT IN MEDICINE AND HEALTH CARE

Session Co-Chairs: Prof. Dr. Mehmet Bayrak, Prof. Dr. Novruz Allahverdi

Time: 15:30–17:30	Hall: B

1. **Recognition of Different Datasets Using PCA, LDA, and Various**
   Classifiers
   by Nazila Panahi, Mahrokh G. Shayesteh, Sara Mihandoost, Behrooz Zali
   Varghahan, Department of Electrical Engineering, Urmia University, Iran

2. **A Fuzzy Expert System Design for Diagnosis of Periodontal Dental Disease**
   by Novruz Allahverdi, Tevfik Akcan, Selcuk University, Turkey

3. **Structural Information About Antihypertensive Peptide Ovokinin (2-7),**
   Obtained by Computer Modeling
   by G. A. Agaeva, N. G. Hasanova, N. M. Godjaev,
   Baku State University, Institute for Physical Problems, Azerbaijan

4. **Investigation of the Spatial Structure of Myomodulin H Molecule by**
   Computer Modeling
   by N. A. Akhmedov, L. N. Agaeva, R. M. Abbasli, L. I. Ismailova, Baku State
   University, Institute for Physical Problems, Azerbaijan

5. **The Role of Computerizing Physician Orders Entry (CPOE) and Implementing Decision Support System (CDSS) for Decreasing Medical Errors**
   by Sakineh Aghazadeh, Institute of IT, Azerbaijan National Academy of Sciences, Baku, Azerbaijan; Alovsat. Q Aliyev, Institute of IT, Azarbaijan; Magsoud Ebrahimnejad, Urmia university of Medical Sciences, Iran

6. **The Modern Condition of the Expert Systems in the Area of the Ophthalmology**
   by Sadagat Faraj Shukurlu, Institute of Information Technology, Azerbaijan

7. **Tele-homecare System Design for Elderly**
   by Mohammadreza Naeemabadi, Young Researchers Club, Majlesi Branch Islamic Azad University Isfahan, Iran; Morteza Zabihi, Biomedical Engineering Dept Tampere University of Technology Tampere, Finland; Behnam Sadeghi Ordoubadi; Mohamadreza Afshari Saleh, Iran; Mohammad Ali Khalilzadeh, Mehrdad Sadeghi Ordoubadi, Islamic Azad University Mashhad, Iran

8. **Modeling Non Functional Requirements in Designing Middleware for Pervasive Healthcare System**
   by Saeid Pashazadeh, Tabriz University, Iran

9. **Automated System for Control and Correction Functional State of Human**
   by A. A. Bayramov, Azerbaijan High Arm School after Heydar Aliev, Azerbaijan; N. A. Safarov, Khazar University (Neftcilar Campus), Azerbaijan

SESSION 5.
ICT IN HUMANITIES AND SOCIAL SCIENCES
Session Co-Chairs: Prof. Dr. Ozhan Tingoy, Dr. Eyüp Zengin

Time: 15:30–17:30   **Hall: C**

1. **Fuzzy Control Rules Base Design**
   by Štefan Koprda, Zoltán Balogh, Milan Turčáni, Department of Informatics, Faculty of Natural Sciences, Constantine the Philosopher University in Nitra, Sloviakia

2. **Using Wavelets to Define and Detect Harmonic Fingerprints in Non-Sinusoidal Waveforms**
   by Ileana-Diana Nicolae, Marian-Ştefan Nicolae, University of Craiova, Software Engineering Department, Romania

3. **PDM Data Classification From STEP - An Object Oriented String Matching Approach**
   by K Butchi Raju, Department of CSE, GRIET, Hyderabad, India; Chinta Someswara Rao, Department of Computer Science and Engineering, SRKR Engineering College, India; S. Viswanadha Raju, Head & Professor of CSE, College of Engineering, Jagithyal, Jawaharlal Nehru Technological University Hyderabad, India; Adavi Balakrishna, Department of Mechanical Engineering, SRKR Engineering College, Bhimavaram, Andhra Pradesh, India

4. **Criteria for Reducing Surplus Traffic Load in Urban Infrastructure**
    by R. S. Abdullayev, Institute of Information Technologies of ANAS, Azerbaijan

5. **Analysis Information Impact for Users in Social Networks**
    by R. M. Alguliev, I. Y. Alekperova, Institute of Information Technology of ANAS, Azerbaijan Republic, Azerbaijan

6. **Some Problems of Personnel Management on the Basis of Social Networks of Scientific Societies**
    by T. S. Aliyev, T. Kh. Fataliyev, Institute of Information Technologies of ANAS, Azerbaijn

7. **Information Society, Social Capital and Turkey**
    by Eyüp Zengin, Mehmet Ayaz, Yalova University, Department of Social Studies, Turkey

8. **Digital Rights Management in Turkish Online Music Sector**
    by Osman Koroglu, Fatih University Vocational School Public Relations Department, Turkey; Ozhan Tingoy, Marmara University Communications Faculty Journalism Department, Turkey

SESSION 6.1.
COMMUNICATION, NETWORK AND HARDWARE

Session Co-Chairs: Assist. Prof. Cihan Mert, Assist. Prof. Saeid Pashazadeh

Time: 15:30–17:30   **Hall: D**

1. **A Routing Algorithm in Stochastic Networks**
    by S. H. Hashemipour, Islamic Azad University, Iran

2. **A New Smoothing Algorithm for Denoising Mesh Surfaces**
    by M. Y. Özsaglam, M. Cunkas, Selcuk University, Turkey

3. **Singular Spectrum Analysis Method as a Universal Filter**
    by C. Mert, A. Milnikov, Computer Technologies and Engineering, International Black Sea University, Georgia

4. **A Novel Communication Model to Improve Mobile Ad hoc Network Routing Reliability**
    by Ali Nakhaee, Ali Harounabadi, Javad Mirabedini, Computer Engineering Department, Islamic Azad University Tehran center Branch, Iran

5. **Genetic Algorithm based NoC Design with Voltage/Frequency Islands**
    by Meltem Ozen, Suleyman Tosun, Ankara University, Turkey

6. **Applications of Learning Automata in Wireless Sensor Networks**
    by Jalil Jabari Lotf, Seyed Hossein Hosseini Nazhad, Institute of Information Technology University of ANAS, Azerbaijan; Mehran Hosseinzadeh Department Of Computer Engineering, University College Of Nabi Akram, Iran

7. **Upper Bound of Time Synchronization Error in Two Dimensional Acoustic Target Localization using Wireless Sensor Networks**
by Saeid Pashazadeh,
Chair of Information Technology department, Tabriz University, Iran

8. **Cluster-based K Mutual Exclusion For Mobile Ad Hoc Networks**
by Abolfazl Toroghi Haghighat, Mohamad Reza Mohamadi,
Department of Computer Science, Qazvin Branch, Islamic Azad University, Iran

9. **Pre-Coordination Mechanism for Self Configuration of Neighborhood Cells in Mobile Wi-Max**
by Abdul Qadeer, Khalid Khan, PAF KIET City Campus Karachi, Pakistan

10. **Using AOP for Developing Fault Tolerant Software**
by Shahrokh Jalilian, Fatemeh Salar, Alireza Khani, Space Research Institute of Iran, Iran; Kazimov Tofig H., Institute of Information Technology, Azerbaijan

11. **Spectrally Correlated Sound Source Detection in a Noisy Environment Using TFD-ACF Mask**
by Ali Pourmohammad, Seyed Mohammad Ahadi,
Amirkabir University of Technology, Iran

12. **Study on Differential Service in Ad Hoc Networks**
by Seyed Hossein Hosseini Nazhad Ghazani, Jalil Jabari Lotf, Islamic Azad University, Iran; R. M. Alguliev, Institute of Information Technology of ANAS, Azerbaijan

13. **A Finite Horizon DEC-POMDP Approach to Multi-robot Task Learning**
by Barış Eker, Ergin Ozkucur, Cetin Mericli, Tekin Mericli, H. Levent Akın, Bogazici University, Faculty of Engineering, Turkey

14. **A Wireless Sensor Network Based On Zigbee For ECG Monitoring System**
by Adem Alpaslan ALTUN,Selcuk University, Dep. of Electronics and Computer System, Turkey; Nusret Başçifci, Selcuk University, Natural and Applied Sciences Institute, Turkey

19:00	**Dinner**

13 October 2011

*13 October events will take place at **Baku State University** and **Institute of Information Technologies of ANAS***

LOCATION: BAKU STATE UNIVERSITY

9:30–11:00 Hall: Main	KEYNOTE SESSION

Speaker: **Professor Love Ekenberg**
Chair of Department of Computer and Systems Sciences, Stockholm University, Sweden
Title: Decision Analysis under Strong Uncertainty

Speaker: **Professor Iurii Krak**
Department of Cybernetics, Taras Shevchenko National University of Kyiv, Ukraine
Title: Analysis and synthesis of intelligent communication information.

11:00–11:30 Coffee Break

11:30–15:30 Hall: Main	CONCURENT SESSIONS

SESSION 4.1.
ICT IN EDUCATION, RESEARCH AND SCIENCE

Session Co-Chairs: Prof. Dr. Alexander Khoroshilov, Prof. Dr. Namig Ahmedov

Time: 11:30–16:00   **Hall: Main**

13:00–14:00 Lunch

1. **On a Way Towards Knowledge Society**
   by Alexander Khoroshilov, UNESCO Institute for Information Technologies in Education

2. **Use of Dynamic Geometry Software in Teaching and Research**
   by Aliyev Y. N., Department of Mathematics, Faculty of Pedagogy, Qafqaz University, Azerbaijan

3. **An Experimental Study on Mobile Social Network Centrality and Educational Performance**
    by Hamid Zargari Asl, Institute of Information Technology of ANAS, Baku, Azerbaijan; Namat Janani, Islamic Azad University, Iran; Behzad Sami, Roza Azarvand, Davar Pilevar, Payam Noor University, Iran; Ezatali Feyz, Sahar Nezhadseifi, Maryam Bazel, Samira Faraji, Islamic Azad University, Iran

4. **Transgression Border Between Education and Industry**
    by Lucian Stefăniă Grigore, Filip Stanciu, Ragîp Gòkcel, Anton Soloi, Adrian Beteringhe, UESEL IEEE Conference Publishing

5. **Instructional Strategies for e-Learning**
    by T. N. Lominadze, R. G. Papiashvili, T. M. Asatiani, Georgian Technical University, Georgia

6. **Cloud Computing Learning**
    by Panagiotis Kalagiakos, Panagiotis Karampelas, Department of Information Technology, Hellenic American University, USA

7. **Smart Schools a Central Role in Education**
    by Mehdi Soltani, Alovsat Aliyev, Institute of Information Technology of ANAS, Azerbaijan

8. **Main Barriers and Possible Enablers for Effective ICT Integration into K-12 Schools**
    by Yuksel Goktas, Tolga Aydin, Depatment of Computer Education & Instructional Technology, Ataturk University, Turkey

9. **Assessment of Academic Performance of Azerbaijan's Universities**
    by A. M. Abbasov, Ministry of Communications and Information Technologies, Azerbaijan; A. H. Hajiev, Institute of Cybernetics, Azerbaijan; S. A. Shabanov Azerbaijan State Economic University, Azerbaijan

10. **Knowledge Management Process in Digital Age: Proposing a Model for Implementing e-Learning Through Digital Libraries**
    by Leila Nemati Anaraki, Azadeh Heidari, Islamic Azad University, Iran

11. **Elaboration of Model and Algorithms of the Virtual Control of Knowledge in Educational Process**
    by Ch. M. Khidirova, Karshi branch of the Tashkent University of Information Technologies Karshi, Uzbekistan

12. **Arabic Handwritten Datasets for Pattern Recognition and Machine Learning**
    by Mohamed E. M. Musa, Sudan university of Science and Technology, Sudan

13. **Digital immigrants and Cloud solutions for education**
    by Emin Akhundov, Microsoft, Azerbaijan

SESSION 4.2.
ICT IN EDUCATION, RESEARCH AND SCIENCE

Session Co-Chairs: Prof. Dr. Niftali Qocayev, Dr. Gulshan Agayeva

Time: 11:30–16:00   **Hall: A**

13:00–14:00   **Lunch**

1. **Pedagogical and Organizational Frameworks for Online Language Studies**
   by Mariam Manjgaladze, Tamar Maxaroblidze, Irakli Shurgulaia,
   Arn. Chikobava Institute of Linguistics, Sokhumi State University, Georgia

2. **About the Role of the Bologna System in the Educational**
   by A. Abbaszadeh, Sh. Mustafyeva, K. Narimanov, Academy of Public
   Administration under the President of Azerbaijan Republic, Information
   Technologies Center, Azerbaijan

3. **Media Education as a Remote Learning Environment**
   by Saida Beknazarova, Kamoliddin Beknazarov,
   Tashkent University of Information Technologies, Uzbekistan

4. **Computer Modeling of Allatostatins using Molecular Dynamics Method:**
   Schistostatin-10
   by N. M. Qodjayev, B. M. Qasimov, Qafqaz University, Azerbaijan; U. T.
   Agayeva, Baku state University, Azerbaijan

5. **Preference Handling in Relational Query Languages**
   by Radim Nedbal, Institute of Computer Science, Academy of Sciences of the
   Czech Republic, Czech Republic

6. **Using of Information and Communication Technologies in Learning and**
   Teaching of Physics in Universities: Unified Interactive Numerical Model
   for Two Body Problem
   by N. M. Qodjayev, B. M. Qasimov, Baku State University, Azerbaijan

7. **About an Application of OLAP-technology in Decision Making**
   Support Systems
   by Nabibayova G., Head of Department, Institute of Information Technology
   of ANAS, Azerbaijan

8. **Developing of the Creative Abilities of the Pupils by the Using New**
   Training Method in the Classes of the Informatics in the General Schools
   by Etibar Seyidzade, Abzetdin Adamov, Qafqaz University, Azerbaijan

9. **Indicators of the condition and factors of development of ICT in republic**
   of Azerbaijan
   by Karayev Robert, Institute Cybernetics of NASA, Azerbaijan; Gulmamedov
   Rufat, Azerbaijan State Economic University, Azerbaijan; Sadikhova Natella
   Institute Cybernetics of ANAS, Azerbaijan; Nagiyev Miraga, Consulting
   Company USTAD LLC, Azerbaijan

10. **About of an Experience of the Teaching "Statistics" by Using the EXCEL**
    by A. I. Mehdialiyev, Academy of Public Administration under the President of the Republic of Azerbaijan, Azerbaijan

11. **Computer Modeling of the Spatial Structure of Analogues of Myelopeptides**
    by L. I. Ismailova, R. M. Abbasli, N. A. Akhmedov, Institute for Physical Problems, Baku State University, Azerbaijan

12. **NOAH E-Managnent in University**
    by Zurab Jikia, N. Koiava, Tbilisi State University, Georgia

SESSION 4.3.
ICT IN EDUCATION, RESEARCH AND SCIENCE

Session Co-Chairs: Prof. Dr. Hamzaga Orucov, Assist. Prof. Hezi Eynalov

Time: 11:30–16:00	Hall: B

13:00–14:00 Lunch

1. **Obstacle Avoidance Method based on Biped Robot**
   by Zetao Jiang, Yanru Cui, Qiang Wang, School of Information Engineering, Nanchang Hongkong University, Nanchang, China

2. **Evaluating the Informativity of Features in Dimensionality Reduction Methods**
   by Mohammad Bagher Akbari Haghighat, Ehsan Namjoo, Faculty of Electrical and Computer Engineering, University of Tabriz, Iran

3. **Solution of Personnel Management Problem on the Basis of Fuzzy Multi-Criterion Methods**
   by Jabrailova Z. Q., Nobari S. M., Institute of Information Technologies of ANAS, Azerbaijan

4. **Cellular Connection Technologies and Facilities**
   by S. H. Orujeva, Baku State University, Azerbaijan

5. **Evaluation Models for e-learning Platforms**
   by Tinatin Mshvidobadze, Gori University, Georgia

6. **Seizure Detection Using Wavelet Transform and a New Statistical Feature**
   by Sara Mihandoost, Mehdi Chehel Amirani, Behrooz Zali Varghahan, Department of Electrical Engineering, Urmia University, Iran

7. **Webometric Analyze of World Universities and About Place of Azerbaijan Universities in the International Rating**
   by Rahila Hasanova, Institute of Information Technologies of ANAS, Azerbaijan

8. **The Vibration of the Nonhomogeneous Arthotropic Plates with Transverse Shear Deformation**
   by Isayev F. G., Qafqaz University, Azerbaijan

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9. **Objective for Students in Teaching Programming Languages at Higher Education with Applications in Java**
    by Sanjar Erdolatov, International Ataturk Alatoo University, Kyrgyzstan

10. **Distance Education in Turkey: Trends and New Directions**
    by Ozgen Korkmaz, Ertuğrul Usta, Mevlana University, Turkey

11. **Modernization of education using EMIS**
    by Senel Buber, Management Information System, Kirgizstan

SESSION 4.4.
ICT IN EDUCATION, RESEARCH AND SCIENCE

Session Co-Chairs: Prof. Dr. Merab Pkhovelishvili, Dr. Bahram Atabeyli

Time: 11:30–16:00	Hall: C

| 13:00–14:00 | Lunch |

1. **Topological Indices Derived from Local Invariants of Some Normal and Iso-alkanes**
    by A. Beteringhe, A. Soloi, L. Grigore, University of South-East Europe, Bucharest

2. **Direction of Arrival Estimation in Multipath Environments Using ICA and Wavelet Array Denoising**
    by Mohammad Ashouri Golroudbari, Department of Electrical and Computer Engineering, University of Tabriz, Iran; Morteza Daneshkar Allam, Islamic Azad University of Sowmesara, Iran

3. **Virtual Teaching at the Education Centers**
    by Mehdi Soltani, Alovsat Aliyev, Institute of Information Technology of ANAS, Azerbaijan

4. **The Free Vibration of the Three Layered Nonhomogeneous Orthtropic Plates**
    by Isayev F. G., Qafqaz University, Azerbaijan

5. **Integration of the Cultural Component in The Elearning Language Course**
    by Ketevan Gochitashvili, Tbilisi State University, Georgia; Bahram Atabeyli, Qafqaz University, Azerbaijan

6. **SSAC Computerized Item Banking and Test Development Model**
    by Abbas-zadeh M. M., Mustafayev T. D., Mehraliyev R. S., The State Students Admission Commission, Azerbaijan

7. **An Effective Role of E-Learning Technology For English Language Teaching By Using Meta Communication Actors**
    by Ilknur Istifci, Anadolu University, Turkey; Tamar Lomidadze, Georgian Technical University, Georgia; Ugur Demiray Anadolu University, Turkey

8. **Some Questions on Distribution of Resources in Scalable Systems**
    by J. K. Kyazimov, K. A. Hasanov, Baku State University, Azerbaijan

9. **Blended Learning : The Integration of Traditional Learning and eLearning**
   by L. G. Muradkhanli, Khazar University, Azerbaijan

10. **Logic Of Integrity, Fuzzy Logic and Knowledge Modeling For Machine Education**
    by Fatma khanim Bunyatova, Intellect Scholl Baku,Azerbaijan; Gulbala Salamov, Computer Education & Instructional Technology, METU, Turkey

11. **The problems arising when applying ICT in education and their solution**
    by Elif Mammmadov, Azerbaijan State Pedagogical University, Azerbaijan

SESSION 1.2.
ICT IN BUSINESS ADMINISTRATION, FINANCE AND ECONOMY

Session Co-Chairs: Prof. Dr. Irada Agayeva, Dr. Lala Veliyeva

Time: 11:30–16:00	Hall: D

13:00–14:00 Lunch

1. **Required Reserve Ratio Risk**
   by M. A. Taghiyeva, Baku State University, Azerbaijan

2. **Indicators and Methods used in the Analysis Foreign Exchange Rates**
   by Tatulashvili Tinatin, Khorguashvili Tea, Jafiashvili Manana, Gori Teaching University, Georgia

3. **E-commerce Development Prospects in Georgia**
   by N. Liparteliani, N. Akhalaia, Gori Teaching University, Georgia; B. Gechbaia Batumi State University, Georgia

4. **Some Features of Formation of the Information Economy**
   by A. G. Aliyev, A. S. Aliyeva, Institute of Information Technology of ANAS, Azerbaijan

5. **Analysis of the Basic Software for the Electronic Commerce System**
   by A. G. Aliyev, V. A. Abbasova, E. H. Musaeva, Institute of Information Technology of ANAS, Azerbaijan

6. **The Main Difficulties in the Development of e-commerce**
   by A. G. Aliyev, A. S. Aliyeva, Institute of Information Technology of ANAS, Azerbaijan

7. **The Theoretical Framework for the Management of Innovation Structures in High-tech**
   by A. G. Aliyev, R. O. Shahverdiyeva, Institute of Information Technology of ANAS, Azerbaijan

8. **Application of Data-Computing Technologies in Organizational and Technological Designing of Pipeline**
   by N. B. Tashpulatova, Tashkent University of Information Technologies, Uzbekistan; V. G. Lim, I. G. Voevodin, Astrakhan State University, Russia; B. T. Kabulov, Head of Joint-stock company, Uzbekistan

9. **Innovation in Bank System of the Republic Uzbekistan**
    by S. R. Mahkmadieva, Tashkent University of Information Technologies, Uzbekistan

10. **The Study of Customer Relationship Management Method**
    by Heresh Beyadar, Khaland Gardali, Islamic Azad University, Iran

11. **Study Of Conformational Features A Neuropeptide BLAST 1 Modeling Of Printed**
    by Lala Veliyeva, Baku State University, Azerbaijan

13 October 2011
LOCATION: INSTITUTE OF INFORMATION TECHNOLOGIES OF ANAS

11:30–13:00   **CONCURRENT TUTORIAL SESSION**

Hall: A   *Speaker:*   **Deniz Koylu**
                           Radio Access Network Solution Manager,
                           Ericsson, Turkey
              Title: Evolution of Mobile Broadband Technologies

Hall: B   *Speaker:*   **Kamran Agayev**
                           Expert DBA (Oracle OCP and Oracle ACE),
                           Azercell Telecom, Baku, Azerbaijan
              Title: Backup and Recovery techniques of Oracle Database

13:00–14:00   **Lunch**

14:00–16:00   **CONCURENT SESSIONS**

SESSION 6.2.
COMMUNICATION, NETWORK AND HARDWARE

Session Co-Chairs: Prof. Mesume H. Memmedova, PhD. Ferhad F. Yusifov

Time: 14:00–16:00   **Hall: A**

15:00–15:30   Cofee Break

1. **Fluid Controlled Models of Computer Networks under Denial of Service Attacks**
   by Ignatenko Oleksii Petrovich, Institute of Software Systems NAS, Ukraine

2. **Perl Object Oriented Programming**
   by Mustafa Simsek, International Ataturk Alatoo University, Kyrgyzstan

3. **Application of Statistical Modelling and Information Technologies in Medical-Biological Research**
   by Ali Shahintash, Qafqaz University, Azerbaijan

4. **Using Microlearning In Programming Languages**
   by Meirambek Zhaparov, Suleyman Demirel University,Turkey

5. **NOAH E-Managnent in University**
   by Zurab Jikia, Tbilisi State University, Georgia

6. **A Novel Communication Model to Improve AODV Protocol Routing Reliability**
   by Ali Nakhaee, Ali Harounabadi, Computer Engineering Department, Islamic Azad University Dezful Branch, Iran; Javad Mirabedini Computer Engineering Department, Islamic Azad University Tehran central Branch, Iran

7. **Multi-Path Routing Challenging Single-Path Routing in Wireless Mesh Networks**
   by Pedram Ghahremanloo, School of Engineering and Design Brunel University, United Kingdom

8. **An Application of RSA in Data Transfer**
   by Dursun Calishkan, Qafqaz University, Azerbaijan

9. **A Survey of Wireless Sensor Networks**
   by Jalil Jabari Lotf, Seyed Hossein Hosseini Nazhad, Rasim M. Alguliev, Institute of Information Technology of ANAS, Azerbaijan

10. **Outlier Detection Based Fault Tolerant Data Aggregation for Wireless Sensor Networks**
    by Suat Ozdemir, Computer Engineering Department, Gazi University, Turkey; Yang Xiao, Department of Computer Science, The University of Alabama Tuscaloosa, USA

SESSION 6.3.
COMMUNICATION, NETWORK AND HARDWARE

Session Co-Chairs: Dr. Ramiz M. Əliquliyev, PhD. Vüqar Y. Musayev

Time: 14:00–16:00	Hall: B

| 15:00–15:30 | Cofee Break |

1. **Designing High Quality Factor MMIC Active Filter in PHEMT Technology**
   by Mohammad Reza Salehifar, Saeed Soleimany, Islamic Azad University, Iran

2. **Simulation and Analysis of a STBC-DSQPSK-CDMA Scheme with Image Transferring Experiments**
   by Jinchang Guo, China Academy of Space Technology, Chine

3. **HWMP Path Selection Protocol based on Learning Automata for Wireless Mesh Networks**
   by P. Ghanbari and A. Khoshtinat, Islamic Azad University, Iran; M. R. Meybodi, Amirkabir University of Technology, Iran

4. **Encryption based on Variable Chaotic Key for Wireless Medical Data Transmission**
   by Mohammadreza Naeemabadi, Nooshaz Amirahmadi Chomachar, Behnam Sadeghi Ordoubadi, Mohammad Ali Khalilzadeh, Mehrdad Sadeghi Ordoubadi, Islamic Azad University, Iran; Morteza Zabihi, Tampere University of, Technology, Finland

5. **Modeling and Simulation of a Distribution STATCOM using Simulink's Power System Blockset**
   by Aliyev Alovsar Qaraja, Maksut Hasanzade Mehemmed, Institute of Information Technology of ANAS, Azerbaijan

6. **Two Level Time Synchronization Scheme for Wireless Sensor Networks**
   by Saeid Pashazadeh, Chair of Information Technology department, Tabriz University, Iran

7. **Using Linear Interpolation Method for Packet Drop Probability Function of RED Algorithm**
   by Babak Abbasov, Head of Information Technology and Systems Department, Qafqaz University, Azerbaijan

8. **Evaluation of Some Tools for Extracting e-Evidence from Mobile Devices**
   by *Appiah Kwame Kubi, Shahzad Saleem, Oliver Popov, Department of Computer and Systems Sciences, Stockholm University, Sweden*

SESSION 6.4.
COMMUNICATION, NETWORK AND HARDWARE

Session Co-Chairs: Prof. Dr. İsmail Hakkı Toroslu, Doç. Dr. Ahmet Coşar

Time: 14:00–16:00	Hall: C

15:00–15:30	Cofee Break

1. **A New MAC Algorithm for QoS Support in Ad hoc Networks**
   by Seyed Hossein Hosseini Nazhad, Jalil Jabari, Department of Computer Engineering, Ahar Branch, Islamic Azad University, Ahar, Iran; R. M. Alguliev, Institute of Information Technology of ANAS, Azerbaijan

2. **A Confidential RFID Model to Prevent Unauthorized Access**
   by Maryam Gharooni, Mehdi Mansourizadeh, Mazdak Zamani, Shahidan Abdullah, Universiti Teknologi Malaysia, Malaysia

3. **Reliability and Latency Calculation in Grid Computing Systems**
   by Mohana Farzin, Poorya Khodabande, Hadi Toofani, Islamic Azad University, Tabriz Branch, Iran

4. **Password-based Client Authentication for SSL/TLS Using ElGamal and Chebyshev Polynomials**
   by Kazım Sarikaya, Ahmet Burak Can, Computer Engineering Department, Hacettepe University, Turkey

5. **Throughput Analysis of SNR and NSNR based Opportunistic Wireless Sensor Networks**
   by Hakki Soy, Vocational School, Karamanoglu Mehmetbey University, Turkey; Ozgur Ozdemir, Department of Electrical Engineering, Qatar University, Qatar; Mehmet Bayrak, Electrical and Electronics Engineering, Mevlana University, Turkey

6. **On Creation of Computing Environments Based on Cloud Computing Technology**
   by R.G.Alekperov, Institute of Information Technology of ANAS, Azerbaijan

7. **Automatic Expertization of Theses**
   by Alguliev Rasim Mahammad, Hasanova Rahila Shaban, Institute of Information Technology of ANAS, Azerbaijan

8. **Using Tag Similarity in SVD-Based Recommendation Systems**
   by Osman Nuri Osmanlı, İsmail Hakkı Toroslu, Computer Engineering Department, Middle East Techical University, Turkey

9. **Welfare Classification using CMAC Neural Networks**
   by Igli Hakrama, Epoka University, Tirana, Albania; Ihsan Ömür Bucak, Mevlana University, Turkey; Özcan Asilkan, Akdeniz University, Turkey

19:00	BANQUET DINNER

14 October 2011
LOCATION: QAFQAZ UNIVERSITY

09:30–10:00　INVITED TALK

Hall: Main　　*Speaker:* **Associate Prof., Dag Wedelin**
　　　　　　　　　Computer Science at Chalmers University of
　　　　　　　　　Technology in Gothenburg, Sweden

　　　　　　　Title:　　Where is the math in ICT?

10:00–13:00　TUTORIAL SESSION

11:00–11:30　Coffee Break

Hall: Main　　*Speaker:* **Prof. Nader Nada**
　　　　　　　　　Computer Engineering Department at Fatih
　　　　　　　　　University, Turkey
　　　　　　　Title:　　Applying Innovation for Business Advantage

10:00–13:00　CONCURENT SESSIONS:

SESSION 7.1.
INFORMATION SCIENCE AND APPLICATION

Session Co-Chairs: Prof. Dr. Petr Sosnin, Dr. Ahmet Burak Can

Time: 10:00–13:00　　　　　　　　　　　　　　　　　　　**Hall: A**

11:00–11:30　　**Cofee Break**

1.　**A Logic Approach for Reducing the Computational Complexity of the Attribute Reduction Problem**
　　by Sirzat Kahramanli, Mevlana University, Turkey; Mehmet Hacibeyoglu, Selcuk University, Turkey

2.　**Perusal about Influences of Cloud Computing on the Processes of These Days and Presenting New Ideas about Its Security**
　　by Feraydune Kashefi, Mehdi Darbandi, Hoda Purhosein, Khalil Alizadeh, Ozra Atae, Islamic Azad University, Iran; Mojtaba Majdi, Telecommunication Company of Iran (TCI), Iran

3.　**Evaluating the Effect of the Eigenvalues on BDF Classifier in Face Detection**
　　by Mohammad Ali Tinati, Ehsan Namjoo, Mohammad Bagher Akbari Haghighat, University of Tabriz, Iran

4. **Pseudocode Programming of Precedents in Conceptual Designing of Automated Systems**
    by P. Sosnin , V. Maklaev, Ulyanovsk State Technical University, Russia

5. **Universal Attitude to the Program Verification**
    by N. Archvadze, Department of Computer Sciences Faculty of Exact and Natural Sciences, Georgia; I. Javakhishvili, Tbilisi State University, Georgia; M. Pkhovelishvili, Department of Programming N. Muskhelishvili Computing Mathematic Institute, Georgia; L. Shetsiruly, Shota Rustaveli State University, Georgia

6. **AAMA: A New Authentication and Authorization Architecture for Modular Information Systems, a Robust Object Oriented Approach**
    by GholamAli Nejad HajAli Irani, Vali Tawosi, Bonab PN University, Iran

7. **Research on Camera Self-Calibration of High-Precision in Binocular Vision**
    by Zetao Jiang, Lianggang Jia, Shutao Guo, School of Informationg Engineering Nanchang Hangkong University Nanchang, China

8. **Internet Technologies in Depth. The Technique of Spam Recognition Based on Header Investigating**
    by Abzetdin Adamov, Head of Computer Engineering Department, Qafqaz University, Azerbaijan

9. **Automation of Network Management With Artificial Intelligence Concepts**
    by Z. A. Jafarov, Azerbaijan Technical University, Azerbaijan

10. **Evaluation of Scientific Articles using the New Article Rank Algorithm**
    by Hasanova Rahila, Shaban University, Turkey

11. **Computer Modeling of Active Center of Hemorphins**
    by G. A. Akverdieva, A. M. Nabiyev, Institute for Physical Problems, Baku State University, Azerbaijan; N. M. Godjayev, Qafqaz University, Azerbaijan

SESSION 7.2.
INFORMATION SCIENCE AND APPLICATION

Session Co-Chairs: Prof. Dr. Chan Basaruddin, Assist. Prof. Osman Koroglu

Time: 10:00–13:00	Hall: B

11:00–11:30	COFEE BREAK

1. **Legal Mechanisms of Internet Governence**
    by R. S. Mahmudov, Institute of Information Technology of ANAS, Azerbaijan

2. **The Research of the Possibility of Creation of Artificial Intelligence**
    by Azad Abbaszade, Rustem Shafaqatov,
    Academy of Public Administration under the President of Azerbaijan Republic, Information Technologies Center, Azerbaijan

SESSION 7.3.
INFORMATION SCIENCE AND APPLICATION

Session Co-Chairs: Prof. Dr. Tugrul Dayar, Prof. Dr. Mustafa Gunesh

Time: 10:00–13:00   **Hall: C**

11:00–11:30   COFEE BREAK

1. **Distributive Segmented PCA: A Novel Approach to Hyperspectral Image Compression**
   by Abbasi Naveed Ahmed, Fatima Syeda Narjis,
   Institute of Avionics and Aerospace (IAA), Air University, Pakistan

2. **Parallel Bubble Sort Using Stream Programming Paradigm**
   by Rahim Rashidy, Saeid Yousefpour, Mohamad Koohi,
   Islamic Azad University, Iran

3. **Enhancement and Cleaning of Handwritten Data by using Neural Networks and Threshold Technical**
   by Behrooz Zali Varghahan, Mehdi Chehel Amirani, Sara Mihandoost,
   Department of Electrical Engineering, Urmia University, Iran

4. **Advanced Contour Reconnection in Scanned Topographic Maps**
   by Emrah Hancer, Erciyes Universit, Turkey; Refik Samet,
   Ankara University, Turkey

5. **Open E-archives of the Rezults of Scientific Researches**
   by T. Kh. Fataliyev, M. I. Ismayilova,
   Institute of Information Technologies of ANAS, Azerbaijan

6. **Train Management System for Mumbai Suburban Train network – an Operations Perspective**
   by Hemant Kagra, Director/QA/S&T/RDS Indian Railway, India; Prashant Sonare Principal – SSJCET, Asangaon, India

7. **Greedy Algorithm for the Scheduling Aircrafts Landings**
   by Şahin Emrah Amrahov, Turkan Ali Ibrahim Alsalihe,
   Computer Engineering Department, Ankara University, Turkey

8. **3D Face Recognition Method by Best Fitting Polynomials**
   by V. Y. Musayev, Head of Department,
   Institute of Information Technologies of ANAS, Azerbaijan

9. **Development of Model Using Fuzzy Synthetic Evaluation, Fuzzy Ordering, Preferences And Consensus for Monitoring System**
   by Jagdish Singh, Department of Architecture and Planning, MA National Institute of Tech., India

10. **SAGE Algorithm Based Channel Estimation for Uplink STBC-MC-CDMA Systems**
by Yusuf Acar, Arshad Salih, Hakan Dogan, Department of Electrical and Electronics Engineering, Istanbul University, Turkey

11. **Development of Analitical and Statistical Reports on the base of Oracle DBMS**
by Emil Mehdiyev, Sinam Company, Azerbaijan

13:00–14:00	LUNCH
14:30	CLOSING CEREMONY
15:30	SOCIAL PROGRAM