

APPLICATION of INFORMATION AND COMMUNICATION TECHNOLOGIES  
3<sup>RD</sup> IEEE INTERNATIONAL CONFERENCE  
BAKU, AZERBAIJAN, 14-16 OCTOBER 2009

**CONFERENCE PROGRAM**

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(All events will take place at Qafqaz University Campus)

**14<sup>th</sup> October 2009**

07.30 – 08:15	Breakfast at the hotel
09.00 – 10.00	Visiting the Honorary Cemetery
10.00 – 10.30	Registration
10.30 – 12.00	Opening (Introductory Speech)
12.00 – 12.30	Coffee-break
12.30 – 14.00	Plenary Meeting
14.00 – 15.00	Lunch (at Qafqaz University)
15.00 – 19.00	Heading to the city: Sightseeing (Martyrs' Square, Inner-city (Old-city), Seaside Park)
20.30 – 22.30	Dinner (Cag Educational Corp.)

**15<sup>th</sup> October 2009**

08.00 – 08:45	Breakfast at the hotel
09:00	Heading to the university
10.00 – 13.00	Meetings in sections and training - seminar
11.20 – 11.35	Coffee-break
11.35 – 12.55	Continuation of meetings in sections
13.00 – 14.20	Lunch (Qafqaz University)
14.30 – 15.50	Meetings in sections
15.50 – 16.05	Coffee-break
16.05 – 18.00	Meetings in sections
18.30	Banquet
23.00	Heading to the hotel

**16<sup>th</sup> October 2009**

08.00 – 08:45	Breakfast at the hotel
09:00	Heading to the university
10.00 – 13.00	Meetings in sections
11.20 – 11.35	Coffee-break
11.35 – 12.55	Continuation of meetings in sections
13.00 – 14.00	Lunch (Qafqaz University)
14.00 – 15.00	Discussions and closing of conference
15.00 – 19.30	Baku tour
19.30 – 20.30	Dinner (Qafqaz University)
20.30	Heading to the hotel

**17<sup>th</sup> October 2009**

Sightseeing (details are provided at the end of this booklet)

10.30-12.00

**INTRODUCTORY SPEECHES and WELCOME**

- ANAS acad., prof. A.M. Magerramov** Rector of Baku State University  
*(opening the conference and delivering an introductory speech)*
- Prof. M.C. Mardanov** Minister of Education, Republic of Azerbaijan  
*(complimentary speech)*
- ANAS acad., prof. A.M. Abbasov** Minister of Communication and Information Technologies, Republic of Azerbaijan  
*(congratulation remarks and keynote speech on “Information and Communication Technologies for Sustainable Development”)*
- Ali Agan** President of Azercell Telecom, Azerbaijan
- Prof. Guy Omidyar** Omidyar-Institute, USA
- Prof. H.A. Mammadov** Rector of Azerbaijan Technical University, Azerbaijan
- ANAS a.m, prof. Rasim Aliguliyev** Director of the Institute of Information Technologies of ANAS, Azerbaijan
- Prof.Dr.Ahmet Sanic** Rector of Qafqaz University, Azerbaijan

**12.00 - 12.30 – Coffee-break**

12.30-14.00

**KEYNOTE SPEECHES**

1. **Prof. Rafiq Aliyev**, Department of Computer-Aided Control Systems, Azerbaijan State Oil Academy, Baku, Azerbaijan  
*Fundamentals of Fuzzy Economics*
2. **Assoc. Prof. Dag Wedelin**, Computer Science Department, Chalmers University of Technology, Gothenburg, Sweden  
*Higher Education in Computer Science and its Role in the Development of IT*
3. **Assistant Prof., Tugrul Yanik**, Computer Engineering Department of Fatih University, Istanbul, Turkey  
*Performance Evaluation of ID Based Authentication Methods in the SIP Protocol*

## TUTORIALS

15 October 2009

### Tutorial A – 10:00 – 12:30, Room B

#### WCDMA and HSPA - The way forward to 3G.

Erman Tanin

Solution Manager, Ericsson Telecommunications, Turkey

### Tutorial B – 14:30 – 17:00, Room B

#### GSM Roaming: Some Aspects

Kamran Aliyev

Data Processing and Roaming Services Group Head, Azercell Telecom, Azerbaijan

## MEETINGS

### 1 –ICT in GOVERNANCE and GOVERNMENT POLICY MAKING

15th October 2009

10.00-13.00 (Qafqaz University, hall C)

11.20 – 11.35 - Coffee-break

**Cochairs** : Dr. Reha Yilmaz, Dr. Fikret Elma  
**Secretary** : Nargiz Nematova

**R. H. Gulməmmədov** (Azerbaijan Respublikası Rəhbərlik və İnformasiya Texnologiyaları Nazirliyi)  
*Dövlət idarəciliyinin keyfiyyətinin artırılmasında E-hökumətin rolu.*

**Zərifə Cəbraylova, M.H. Məmmədova** (AMEA İnformasiya Texnologiyaları İnstitutu, Azərbaycan)  
*Azərbaycanda informasiya texnologiyaları mütəxəssisləri sayının hesablanması metodikası*

**Alguliev R.M, İmamaverdiyev Y.N** (Institute of Information Technology of ANAS, Azerbaijan)  
*e-Government Information Security Management Research Challenges*

**P.A. Караев** (Институт кибернетики Национальной Академии наук Азербайджана),  
**P.X. Гюльмамедов** (Министерство связи и информационных технологий), **Дж.Ф. Терегулова** (Азербайджанский Государственный Экономический университет)  
*Стратегический SWOT-анализ государственного бюджета. Динамический подход*

**Aygün Əhmədova, Rasim Əliquliyev** (AMEA İnformasiya Texnologiyaları İnstitutu, Azərbaycan)

*İnformasiya cəmiyyətində insan hüquqlarının təmin olunması və qarşıya çıxan problemlər*

**Üzeyir Qurbanlı** (AMEA, İnformasiya Texnologiyaları İnstitutu, Azərbaycan)

*Gömrük nəzarətinin avtomatlaşdırılmış sistemi və risklərin idarə olunması informasiya sisteminin inteqrasiya məsələsi*

**Rasim Mahmudov** (AMEA İnformasiya Texnologiyaları İnstitutu, Azərbaycan)

*İnternet xidməti provayderlərinin məsuliyyətinin müəyyən edilməsi*

**Rasim Alguliyev, Yadigar İmamverdiyev, Elçin Əliyev** (AMEA İnformasiya Texnologiyaları İnstitutu, Azərbaycan)

*Milli informasiya məkanının əhali və miqrasiya üzrə seqmentinin formalaşdırılması konsepsiyası üçün tezislər*

**Josimovski Saso, Trenevaska-Blagoeva Kalina, Mihajlov Martin** (Ss. Cyril and Methodius University Skopje, FYR of Macedonia)

*Evaluation of Electronic Public Procurement Solution for the FYR of Macedonia*

**Mustafa Bayrakci** (Sakarya University, Turkey)

*E-Inclusion for Bridging the Digital Divide in Turkey*

## DISCUSSIONS

### 2- ICT in MEDICINE and HEALTH CARE

15th October 2009

10.00-13.00 (Qafqaz University, hall E)

11.20 – 11.35 - Coffee-break

**Cochairs** : Prof. Ahmet Sanic, Dr. Mehmet Rihtim, M. Fatih Yegul

**Secretary** : Aynura Bashirova

**Ə.Q. Əliyev, S.İ. Ağazadə** (AMEA İnformasiya Texnologiyaları İnstitutu, Azərbaycan)

*Səhiyyə sferasında müasir informasiya sistemlərinin işlənilməsi və tətbiqi məsələləri*

**Ə.Q. Əliyev, Ə.B. Nadiri** (AMEA İnformasiya Texnologiyaları İnstitutu, Azərbaycan)

*Mədəni proseslərin inkişafına İKT və İS-in təsirinin öyrənilməsi və onun vasitəsilə həmin sahələrdə idarəetmənin səmərəliliyinin artırılması məsələləri*

**Namik Rashydov** (Institute of Cell Biology and Genetic Engineering NAS of Ukraine, Ukraine)

*Using of Extract Mixture from Red Vine Grape Seed and Selenium Content Plant for Human Welfare in Conditions of Chronic Irradiation*

**Hanife Usta, İlyas Eminoglu, Sefa Geylani, Nurettin Senyer, Gökhan Kayhan** (Ondokuz Mayıs University, Turkey), **Ali Ekber Özdemir** (Ordu University, Turkey)

*Protez EL Tasarımı – Bölüm II: EMG İşaretinin Destek Vektör Makinesi ile Sınıflandırılması ve Sanal Protez Elin Sürülmesi*

**Nurettin Şenyer, Sefa Geylani, Recai Oktas** (Ondokuz Mayıs University, Turkey)  
*Prosthesis Hand Design – Part I: Virtual Hand Simulator*

**Alireza Kajabadi** (University of Najafabad, Iran), **Mohamad Hosein Saraee, Sedighe Asgari**  
(University of Isfahan, Iran)  
*Data Mining Cardiovascular Risk Factors*

**Y.N. İmamverdiyev** (Institute of Information Technology of ANAS, Azerbaijan)  
*A BioHashing Method for Fingerprint Templates Protection*

## DISCUSSIONS

### 3 - ICT in EDUCATION, RESEARCH and SCIENCE

#### 3.1 – SECTION

**15th October 2009**

**10.00-13.00 (Qafqaz University, hall A)**

**11.20 – 11.35 - Coffee-break**

**Cochairs** : Prof. N. Gojayev, Prof. N. Ahmedov  
**Secretary** : Ulker Agayeva

**Н.М. Годжаев** (Университет Гафгаз, Бакинский Государственный Университет, Азербайджан), **Б.М. Касумов** (Университет Гафгаз, Азербайджан)  
*Об Использовании ИКТ при Изучении и Преподавании Физики на Физических Факультетах Университетов*

**L. I. Veliyeva** (Baku State University, Azerbaijan)  
*Study of Structures of Biomolecules of Drostatin Family by Means of Computer Modelling*

**Т.И. Исмаилова, Р.М. Аббаслы, Л.И. Исмаилова** (Институт физических проблем, Бакинский Государственный Университет, Азербайджан)  
*Пространственная структура и электронные свойства молекулы Gly-Glu-His-Phe-Pro-Gly-Pro*

**İlqam Gurbanov** (Guba Regional Centre of Agrarian Science, Azerbaijan)  
*Computational Approaches to the Description of the Nitrogen Oxide Production from Various Compounds*

**Nəbiyev Ə.M, Haqverdiyeva G.Ə.** (Bakı Dövlət Universiteti, Azerbaijan)  
*Hemorfîn peptidlərinin fəza quruluşlarının tədqiqi.*

**Svetlana Demukhamedova** (Институт Физических Проблем, Бакинский Государственный Университет, Азербайджан)

*Роль Компьютерного Моделирования в Квантово-Химических и Спектроскопических Исследованиях Строения и Свойств Многоатомных Молекул*

**С.Д. Демухамедова, И.Н. Алиева** (Институт Проблем физики, Бакинский Государственный Университет, Азербайджан), **Н.М. Годжаев** (Университет Гафгаз, Бакинский Государственный Университет, Азербайджан)

*Влияние Атомов Переходных Металлов на Структуру Координационных Комплексов Карнозина*

**И.М. Эфендиева, Ш.Г. Аскеров, Л.К. Абдуллаева, Ш.М. Годжаева, Т.З. Кулиева** (НИИ Проблем Физики, Бакинский Государственный Университет, Азербайджан)

*Высота потенциального барьера диода шоттки Al-Ni/n-Si с аморфным металлическим сплавом*

**Baba Qasimov** (Университет Гафгаз, Азербайджан)

*Пакет Программ для Микроскопического Моделирования Многоатомных Кристаллов из “Первых Принципов”*

**U.T. Agayeva** (Institute of Physical Problems, Baku State University, Azerbaijan)

*Simulation by Computer Spatial Structure of the Phe-Gly-Leu-NH<sub>2</sub> Molecule*

## DISCUSSIONS

### 3.2 - SECTION

15th October 2009

14.30-18.00 (Qafqaz University, hall A)

15.50 – 16.05 – Coffee-break

**Cochairs** : Prof. I. Aliyeva, Assoc. Prof. B. Gasimov

**Secretary** : S. Demukhammedova

**Н.А. Ахмедов, Р.М. Аббаслы, Л.И. Исмаилова** (Институт физических проблем, Бакинский Государственный Университет, Азербайджан)

*Пространственная Структура Кардиоактивных Пептидов*

**Gülşən Ağayeva** (Institute for Physical Problems, Baku State University, Azerbaijan)

*Conformational Aspects of the Structure-Function Relationships in the Biologically Active Peptides*

**Fang Hai-guang, Li Xue-mei** (Capital Normal University China), **Fang Hai-guang** (Beijing Normal University, China), **Helge Høivik** (Oslo University College? Norway)

*Research on Improving Learning Interests for Elementary Students Based on Mental Mode by Using Mathematics Animations*

**Goksu, A., Karacadag, M.C., Yilmaz M., Parlak, Z., Tasbasi N.** (Sakarya Universitesi, Turkey)

*Türk Yüksek Öğretiminde 4 Yıllık Lisans Programları için Harmanlanmış e-Öğrenme Modeli*

**Firudin Ağayev** (Institute of Information Technologies of ANAS, Azerbaijan)  
*The Standards of the Contents in a Subject of Informatics for General Education Schools*

**Fatma Khanim Bunyatova, Aynur Bunyatova** (Intellect School, Baku, Azerbaijan)  
*Digital School*

**Alovsat Aliyev** (AMEA İnformasiya Texnologiyaları İnstitutu, Azerbaijan)  
*Təhsil sferasında intellektual informasiya sistemlərinin işlənilməsi və tətbiqi*

**N.S. Nabiyev, M.A. Ramazanov, F.V. Hajiyeva** (Bakı Dövlət Universiteti, Azerbaijan)  
*Kompüter modelləşdirilməsi vasitəsi ilə polimer-yarımkəcirici tərkibli nanokompozitlərin elektron-fəza quruluşlarının və spektroskopik xüsusiyyətlərinin müqayisəli tədqiqi*

**Paşayev F.H., Həsənov A.Q.** (Baku State University, Azerbaijan)  
*Role of Overlap Integrals in Study of Electronic Structure of Atoms and Molecules*

**Ирада Алиева, Гюльтекин Аббасова, Нифтали Годжаев** (Бакинский Государственный Университет)  
*Конформационно-Динамические Свойства Молекулы CREKA*

## DISCUSSIONS

### 3.3 - SECTION

15th October 2009

10.00-13.00 (Qafqaz University, hall **D**)

11.20 – 11.35 - Coffee-break

**Cochairs** : Prof. Ajdar Agayev, Dr. Mehmet A. Eroglu  
**Secretary** : Ibrahim Kurt

**Ejder Agayev, İbrahim Kurt** (Qafqaz University, Azerbaijan)  
*Bilgisayar ve İletişim Teknolojilerinin Kullanımı Sosyal Pedagojiye Karşı (mı?)*

**Erkan Taskin** (University of Northern Iowa, USA)  
*Distance Education: A Flexible Teaching and Learning Delivery Method*

**Mehmet A. Eroglu** (Fatih Üniversitesi, Turkey)  
*Uluslararası Üniversiteler Birliği Akademik Dokümantasyon Paylaşım ve Uzaktan Öğretim Araçları (Türk Dili Örneği)*

**Fang Hai-guang, Wang Gui-hua** (Capital Normal University, China), **Fang Hai-guang** (Beijing Normal University, China), **Helge Høivik** (Oslo University College, Norway)  
*Research on Interactive Interests of Pupil-Oriented Mathematics Learning Using Game-Based Animation*

**Etibar Seyidzadə** (Qafqaz Universiteti, Azerbaijan)

*Açıq sistemli kompüter təlim proqramlarının hazırlanması və istifadə mərhələləri*

**Zaffar Ahmed Shaikh** (Iqra University, Pakistan)

*ZPD Incidence Development Strategy for Demand of ICTs in Higher Education Institutes of Pakistan*

**Alexandre Ediberidze, Michael Kantaria** (Technical University of Georgia)

*Usability of the Genetic Algorithms for Solving Lectures Schedule Task*

**Haiguang Fang, Jing Liu** (Capital Normal University, China), **Haiguang Fang, Ronghuai Huang, Yushun Li** (Beijing Normal University, China)

*Research on Adaptive Mobile Learning Resources Platform Based on Learning Object Model*

**Fatma Khanim Bunyatova, Aynur Bunyatova** (Intellect School, Baku, Azerbaijan)

*Logical Integrity, Fuzzy Logic and Modeling Content of Education*

**А.Г. Гаджиев, С.А. Шабанов, Ф.М. Салманов** (Институт Кибернетики НАНА, Азербайджан)

*Информационная Система Оценки Качества Научной Деятельности*

## DICUSSIONS

### 3.4 - SECTION

**15th October 2009**

**14.30-18.00 (Qafqaz University, hall D)**

**15.50 – 16.05 – Coffee-break**

**Cochairs : Prof. Fedor Pashchenko, Dr. Shaig Nabiyev**

**Secretary : Vugar Musayev**

**Fedor Pashchenko** (Институт Проблем Управления РАН, Россия)

*Прогнозирующие Имитационные Модели в Системах Поддержки Принятия Решений*

**Poonam Toke, S.G. Bhirud** (VJ.T.I, Mumbai, India)

*Interactive Web Based Learning: Image Processing*

**Kenan Baltaci** (University of Northern Iowa, USA), **Faruk Yildiz** (Sam Houston State University, USA)

*NI LabView Data Acquisition System Design using Hydrogen Fuel Cell*



**Mustafa Ulutas** (Ondokuz Mayıs University, Turkey), **Vasif V. Nabiyev** (Karadeniz Technical University, Turkey), **Guzin Ulutas** (Ondokuz Mayıs University, Turkey)  
*A New Secret Image Sharing Technique Based on Asmuth Bloom`s Scheme*

**Rəhilə Həsənova** (AMEA İnformasiya Texnologiyaları İnstitutu, Azerbaijan)  
*Azerbaijan elmi jurnallarının vaciblik göstəricisi – milli impakt-faktorunun hesablanması*

**Cebrail Çiflikli, A. Tuncay Özshahin** (Erciyes University, Turkey), **A. Turgut Tuncer** (Başkent University, Turkey)  
*A New Future Technology in Rural and Remote Education: IEEE 802.22 Cognitive Radio Based Wireless Regional Access Network (WRAN)*

**Murat Demirbaş** (Kırıkkale University, Turkey), **Rahmi Yağbasan** (Başkent University, Turkey)  
*An Analysis of the Realization Rate of Affective Objectives of Science and Technology Curriculum*

**Hamideh Rezaee, Masoud Geravanchizadeh** (University of Tabriz, Iran)  
*Automatic Language Identification of Bilingual English and Farsi Scripts*

**Urfat Nuriyev** (Institute of Cybernetics of ANAS, Azerbaijan), **Korhan Gunel** (Adnan Menderes University, Turkey)  
*Relation Extraction among Learning Concepts in Intelligent Tutoring Systems*

## DISCUSSIONS

### 4- ICT in HUMANITIES and SOCIAL SCIENCES

15th October 2009

10.00-13.00 (Qafqaz University, hall **E**)

11.20 – 11.35 - Coffee-break

**Cochairs** : Dr. Mehmet Rihtim, M. Fatih Yegul  
**Secretary** : Aynura Bashirova

**Amol Potgantwar, S. G. Bhirud** (VJTI, Mumbai)  
*Face Recognition Using Partitioned Iterated Function System*

**M. Fatih Yegul, Mustafa Yavuz, Bonwoo Koo, Paul Guild** (University of Waterloo, Canada),  
*Delineation of Landscapes of Emerging Sciences through Publication Data: A Case of Nanoscience in Canada*

**N.I. Nugumanov, L. Naizabayeva, D. Nurlanov** (International Academy of Business, Kazakh-British Technical University, Republic of Kazakhstan),  
*Development of a Software System with the View of Automation of Traffic Flow Management*

**Demir Yeliussizov, A. Tuyakbayev, A. Akshabayev** (IEEE Conference Publishing  
59 Tole-bi, Almaty, Kazakhstan)  
*Multi-Touch Sensing Using Frustrated Total Internal Reflection*

**Roza Shahverdiyeva** (AMEA İnformasiya Texnologiyaları İnstitutu, Azərbaican)  
*Regionların sosial-iqtisadi inkişafının təminində texnoparkların formalaşması vasitələri və mexanizmləri*

**Muhammad Owais Mehmood** (NED University of Engineering & Technology, Pakistan)  
*Multi-camera Based Human Tracking with Non-Overlapping Fields of View*

## DISCUSSIONS

### 5 - APPLICATIONS

#### 5.1 - SECTION

15th October 2009

14.30-18.00 (Qafqaz University, hall C)

15.50 – 16.05 – Coffee-break

**Cochairs** : Prof. Novruz Allahverdi, Dr. Suleyman Tosun  
**Secretary** : Sevil Imanova

**M. Fatih Talu, İ. Türkoğlu** (Firat University, Turkey)  
*A Novel Object Recognition Method Based on Improved Edge Tracing for Binary Images*

**Roshanak Safavi** (Multimedia University, Iran)  
*Human/Social Factors Influencing Usability of E-commerce Websites and Systems*

**Abzətdin Adamov, M.Murat Erguvan** (Qafqaz University, Azerbaijan)  
*The Truth about Colud Computing as new Paradigm in IT*

**Mustafa Simsek** (International Ataturk Alatoov University, Kirgizistan)  
*Perl Input-Output Files*

**Ahmet Nayır** (Fatih Üniversitesi, Turkey), **Günay Karlı** (University of Northern Iowa, USA)  
*Applications of ANN and RULES-3 to DNA Sequence Analysis*

**Suleyman Tosun, Yusuf Yavuz** (Ankara University, Turkey)  
*Parallelization of Render Engine for Global Illumination of Graphics Scenes*

**Cengiz Tepe, Nurettin Şenyər** (Ondokuz Mayıs University, Turkey)  
*Improving R-peak Detection in ECG Based On Polynomial Curve Fitting*

**Vasif Nabiyev** (Karadeniz Teknik Universitesi, Turkey), **Telman G. Melikov** (Azerbaijan Technological University, Azerbaijan)  
*Profil Siluetinin Tanınması ve Kulak Biyometrisi*

**Huang Yi** (Communication Academy, China)  
*Research on Internet-based Open Remote Fault Diagnosis Expert System*

**Sevil Imanova** (Qafqaz University, Azerbaijan)  
*Service Quality Evaluation by Fuzzy Delphi Method*

**Mohsen Sharifi, Nima Ghaemian, Behrouz Minaei** (Iran University of Science and Technology),  
**Ramin Orujov** (Azercell Telecom LLC)  
*An Algorithmic Incremental and Iterative Development Method to Parallelize Dusty-Deck Fortran HPC Codes in GPGPUs using CUDA*

## 5.2 - SECTION

15th October 2009

14.30-18.00 (Qafqaz University, hall E)  
15.50 – 16.05 – Coffee-break

**Cochairs** : Prof. Vasif Nabiyev, Prof. Vasile Avram  
**Secretary** : Khayyam Masiyev

**Mohammad Bagher, Akbari Haghghat, Masoud Geravanchizadeh, Ehsan Namjoo**  
(University of Tabriz, Iran)  
*A Region-Based Edge Detection Technique for Noisy Images*

**Vasif Nabiyev** (Karadeniz Teknik Universitesi, Turkey)  
*İnsanın İdentifikasyonunda Qraf Modelinə Görə Barmaq İzinin Tanınması*

**Novruz Allahverdi** (Selcuk Universitesi, Turkey)  
*Some Applications of Fuzzy Logic in Medical Area*

**Vasile Avram** (Academy of Economic Studies in Bucharest, Romania)  
*Defining Metrics to Automate the Quantitative Analysis of Textual Information within a Web Page*

**Vasif Nabiyev, Fuat Bölükbaş** (Karadeniz Technical University, Turkey)  
*Yerel İkili Örnekler Yardımıyla İrk Tanıma*

**Gökhan Kayhan, Nurettin Senyer** (Ondokuz Mayıs University, Turkey), **Ali Ekber Özdemir, Hanife Usta** (Ordu University, Turkey), **İlyas Eminoglu** (Ondokuz Mayıs University, Turkey)  
*Protez EL Tasarımı – Bölüm III: Elektro-Mekanik Elin EMG İşaretiyle Gerçek Zamanlı Denetimi*

**Maslin Masrom, Farnaz Towhidi** (University of Technology, Malaysia), **Arash Habibi Lashkari**  
(University of Malaya, Malaysia)  
*Pure and Cued Recall-Based Graphical User Authentication*

**S. Habibullayev, K. Ibadullayev, R. Hasanov** (Bestcomp Group, Azerbaijan)  
*Elektron sađlamlıq kartı sistemi*

## DISCUSSIONS

### 6 – ICT in BUZINESS, FINANCE and ECONOMY

16th October 2009

10.00-13.00 (Qafqaz University, hall **B**)

11.20 – 11.35 - Coffee-break

**Cochairs** : Assoc. Prof. Cihan Bulut, Dr. Hezi Eynalov, Dr. Eyup Zengin  
**Secretary** : Nasimi Kamalov

**Mayis Azizov** (Qafqaz Universiteti, Azerbaijan)  
*Para Politikasının Etkinliđinin Artırılmasında Bilgi Teknolojisinin Rolu*

**Gorkhmaz Imanov** (Institute of Cybernetics of National Academy of Sciences, Azerbaijan)  
*Early Warning Fuzzy System of the Financial Stability*

**F. Pashchenko, S.V. Zernov** (Institute of Control Sciences, Russian Academy of Sciences, Russia)  
*The Electronic Government of the Service State*

**R.H. Gulmammadov** (Ministry of Communication and Information Technologies, Azerbaijan),  
**R.A. Karayev, M. A. Nagiyev.** (Institute of Cybernetics of ANAS, Azerbaijan)  
*Cognitive Technologies of Support of Innovative Management of the Enterprises*

**David Allen** (Leeds University, UK)  
*A Socio-Economic Analysis of WiMAX*

**Nesrin Nayir** (Haliç Üniversitesi, Turkey), **Ali Okatan** (University of Northern Iowa, USA),  
**Ahmet Nayir** (Fatih Üniversitesi, Turkey)  
*Türkiye Elektrik Sektöründe Bilgi Teknolojileri ve E-ticaret Kullanımı*

**Alovsat Aliyev** (AMEA İnformasiya Texnologiyaları İnstitutu, Azerbaijan)  
*Elektron kommersiya texnologiyalarının səciyyəvi xüsusiyyətləri*

**Eyüp Zengin** (Qafqaz Üniversitesi, Azerbaijan)  
*İnovasyon, Bilgi Toplumu ve Türkiye*

**Elçin Süleymanov** (Qafqaz Universiteti, Azerbaijan)  
*Elektronik Ticaret ve Azərbaycan Ekonomisine Beklenen Etkileri*

**F.F. Yusifov, R.M. Alguliev** (ANAS Institute of Information Technologies, Azerbaijan)  
*Electronic Governance as Transformation Technology of Public Management*

**Теймур Абдурагимов** (Institute of Cybernetics of ANAS, Azerbaijan)  
*Structurally-Conceptual Formalization of Cognitive Models by Methods of Experimental Psycho Semantics*

**Altay İsmayilov** (Qafqaz Universitesi, Azerbaijan)  
*Gelismekte Olan Ulkelerin Iktisadi Kalkinmasinda Bilgi Teknolojisi Yaklasimi*

**Н. А. Абдуллаева** (Институт Кибернетики, Азербайджан)  
*Нечеткая Марковская Модель оценки и прогноза композиционного индекса устойчивости социальной среды в Азербайджане*

## DISCUSSIONS

**7 – COMMUNICATIPON, NETWORKS and HARDWARE**

**7.1 – SECTION**

**16th October 2009**

**10.00-13.00 (Qafqaz University, hall C)**

**11.20 – 11.35 - Coffee-break**

**Cochairs** : Assoc. Prof. Yashar Hajiyev, Assist. Prof. S. Smys  
**Secretary** : Parviz Hasanov

**Mahsa Armaghan, Abolfazl T. Haghightat, Mohammadreza Armaghan** (Islamic Azad University, Iran)

*An Effective Candidate List Strategy for Tabu Search Based QoS Multicast Routing*

**S. Smys, Jennifer S. Raj, G. Josemin Bala** (Karunya University, Coimbatore, India),  
*Construction of Virtual Backbone to Support Mobility in Manet-A Less Overhead Approach*

**Pejman Langari, M. Dousti** (Islamic Azad University, Iran)

*A Tunable Active MMIC Recursive Filter for Communication Systems in SiGe BiCMOS*

**Р.Р. Ибраимов, Т.Б. Сатиболдиев** (ТУИТ, Узбекистан)

*Беспроводная Оптическая Связь и Мобильные Сети Следующих Поколений*

**Mahsa Armaghan, Abolfazl T. Haghightat, Mohammadreza Armaghan** (Islamic Azad University, Iran)

*QoS Multicast Routing Algorithms Based on Tabu Search with Elite Candidate List*

**M. S. Mohammadi, F. Lahouti, M. Soleimanipour** (University of Tehran, Iran)

*MIMO Minimum Leakage - Physically Secure Wireless Data Transmission*

**Aleksey Yevdokimov** (Nevinnomyssk Technological Institute of North Caucasus State Technical University, Russia)  
*Dynamic System of Proactive Security*

**Ergin Eryılmaz, Ismail Ertürk, Sedat Atmaca** (Kocaeli University, Turkey)  
*Implementation of Skipjack Cryptology Algorithm for WSNs Using FPGA*

**Alguliev Rasim, Derakshandeh S, Imamverdiyev Y.N.** (Institute of Information Technologies of ANAS, Azerbaijan)  
*Information Security Risk Assessment using Bayesian Networks*

**Farshad Eshghabadi** (Islamic Azad University, Iran)  
*An MMIC Receiver Front-end Design for 2.4 GHz Frequency Band Applications in 0.2 $\mu$ m GaAs Pseudomorphic HEMT Process*

**Zahra Safaei** (Islamic Azad University of Takestan, Iran), **Masoud Sabaei** (Amirkabir University of Technology, Iran), **Fatemeh Torgheh** (Islamic Azad University of Abhar, Iran)  
*An Efficient Reputation-Based Mechanism to Enforce Cooperation in MANETs*

**Taner Tuncer, Yetkin Tatar** (Fırat Üniversitesi, Turkey)  
*Programlanabilir Gömülü Sistem Tasarımı: Sniffer Üzerine Bir Çalışma*

**F. V. Çelebi** (Ankara University, Turkey), **T. Altındağ** (Atılım University, Turkey), **R. Yildirim** (Gazi University, Turkey), **L. Gökrem** (Gaziosmanpaşa University, Turkey)  
*Semiconductor Laser Modeling with ANFIS*

**Safa Rahimi Movaghar** (Vienna University of Technology, Institute Broadband Communications, Austria)  
*Universal Vehicular Ad-hoc Network Design: The Case for Dynamic Addressing and Relative Positioning System*

**F. V. Çelebi, B. Gergerli** (Ankara University, Turkey), **R. Yildirim** (Gazi University, Turkey), **L. Gökrem** (Gaziosmanpaşa University, Turkey)  
*Alternative Intermodulation Frequency Components*

**Rahim Rashidi, Mohammad Ali Jebraeil Jamali, Ali Salmasi, Reza Tati** (Islamic Azad University, Iran)  
*Trust Routing Protocol Based on Congestion Control in MANET*

## 7.2 – SECTION

16th October 2009

10.00-13.00 (Qafqaz University, hall E)  
11.20 – 11.35 - Coffee-break

**Cochairs** : Prof. Gungör Bal, Dr. Yadullah Babayev  
**Secretary** : Seymur Ilyasov

**Güngör Bal, Nihat Daldal, Nihat Öztürk** (Gazi University, Turkey),  
*Implementation of a Call System with Power Line Communication*

**Mariam Zabihi, Hossein Miar Naimi** (Babol University of Technology, Iran)  
*Novel Nonlinear Fast Locking PLLs Based on Mathematical Models*

**Vasif Feyziyev, Vaqif Feyziyev** (Институт Кибернетики НАН Азербайджана, Азербайджан)  
*Расчет оптимальной стратегии включения резервных каналов в много-скоростных системах обслуживания с потерями*

**Alguliyev R.M., Imamverdiyev Y.N., Musayev V.Y.** (Institute of Information Technologies of ANAS, Azerbaijan)  
*Securing Fingerprint Template by Watermarking*

**Reijo Savola** (VTT Technical Research Centre of Finland)  
*Development of Security Metrics for a Distributed Messaging System*

**Maryam Mohammadi Avarzaman, Ahmad Salahi** (Azad University South Tehran Branch, Iran)  
*Increasing Performance of Authentication in Universal Mobile Telecommunication System*

**Mohammad Ali Jabraeil Jamali** (Islamic Azad University, Shabestar Branch, Iran)  
*A New Method for Improving the Performance of Network on Chip Using DAMQ Buffer Schemes*

**Suleyman Tosun** (Ankara University, Turkey), **Ozcan Ozturk** (Bilkent University, Turkey),  
**Meltem Ozen** (Ankara University, Turkey)  
*An ILP Formulation for Application Mapping onto Network-on-Chips*

**Yilmaz Ar, Suleyman Tosun, Hasan Kaplan** (Ankara University, Turkey)  
*TopGen: A New Algorithm for Automatic Topology Generation for Network on Chip Architectures to Reduce Power Consumption*

**M. Irfan Anis, Naveed Ahmed, Usman Ahmed** (Sir Syed University of Engineering & Technology, Muhammad Ali Jinnah University, Pakistan)  
*Performance Analysis of Optical Network Based on OADM by using Different Filters*

**Xuan Nie, Chengfu Wu, Huaimin Chen** (Northwestern Polytechnic University, China),  
*Advanced Power Calibration for Random Access in the IEEE 802.16 System*

**Remzi Yildirim, H. Güçlü Yavuzcan** (Gazi University, Turkey), **F.V. Çelebi** (Ankara University, Turkey), **Levent Gökrem** (Gaziosmanpasa University, Turkey)  
*Asymmetric Condition Computed from the Four Tone Input GaN HEMT*

**Cebrail Çiflikli, Ali Gezer, A. Tuncay Özşahin** (Erciyes University, Turkey), **Öznur Özkasap** (Koc University, Turkey)  
*Comparison of Bittorrent Packet Traffic Characteristics over IPv6 and IPv4*

**Narges Khatib-Astaneh** (Payame Noor University of Mashhad, Iran), **Vahid Salmani** (University of California, Irvine, USA), **Hamid Tabatabaee Yazdi** (Islamic Azad University of Quchan, Iran), **Mahdi Salmani** (Allameh Mohades Noori University, Iran)  
*Investigating the Effect of Processor Affinity on Uniform Parallel Machine Scheduling*

**F.V. Celebi, S. Tankiz** (Ankara University, Turkey), **Remzi Yıldırım** (Gazi University, Turkey), **L. Gökrem** (Gaziosmanpasa University, Turkey)  
*Modeling Quantum Cascade Lasers by Multi-layer Perceptrons*

### 7.3 – SECTION

16th October 2009

10.00-13.00 (Qafqaz University, hall **D**)  
11.20 – 11.35 - Coffee-break

**Cochairs** : Assoc. Prof. Nuh Aydın, Assist. Prof. Tugrul Yanik,  
**Secretary** : Dursun Chalishkan

**Tugrul Yanik, Yolguly Allaberdiyev** (Fatih University, Turkey), **H. Hakan Kilinc** (Gebze Institute of Technology, Turkey)  
*Performance Evaluation of ID Based Authentication Methods in the SIP Protocol*

**Ali Calhan, Celal Ceken, Ismail Erturk** (University of Kocaeli, Turkey)  
*A Teaching Demo Application of Convolutional Coding Techniques for Wireless Communications*

**Babak Abbasov** (Qafqaz University, Azerbaijan)  
*AHRED: A Robust AQM Algorithm for Wireless Ad hoc Networks*

**Hamid Zargari** (Institute of Information Technologies of ANAS, Azerbaijan), **Saeid Bairami** (Ardabil Islamic Azad University, Iran), **Namat Janani** (Telecommunication Corporation, Iran),  
*Manipulation the Electrical Model for Social Network as Social Circuit for Detection the Generating and Leaking Nodes*

**Hamid Zargari** (Institute of Information Technology of ANAS, Azerbaijan), **Saeid Bairami** (Ardabil Islamic Azad University, Iran), **Namat Janani** (Ardabil Telecommunication Corporation, Ardabil, Iran)  
*Using Telecommunication Traffic Parameters in Social Network Approaches*

**Harish Chincholi** (K.L.E.S. College of Engineering & Technology, India)  
*Wireless Controller Area Network Based Cross Channel Data Link*



**Süleyman Çakıcı** (Düzce University, Turkey), **Ismail Ertürk, Alper Karahan, Sedat Atmaca** (Kocaeli University, Turkey)

*An Integrated Approach for Analytical Modeling of WSNs*

**Massoud Dousti, M. Yazdizadeh, F. Eshghabadi** (Islamic Azad University, Iran)

*A 2.4-GHz SiGe BiCMOS MMIC Active Tunable Band-Pass Filter Design using Artificial Neural Network*

**Ameneh Habibzadeh, M. Dousti, H. Hajghassem** (Islamic Azad University, Iran)

*A Novel Algorithm to Reduce Insertion Loss and Triple Transit Echo in SAW Filter to Improve the Performance of Communication Systems*

**Maznah Kamat, Abdul Samad Ismail** (Universiti Teknologi Malaysia), **Stephan Olariu** (Old Dominion University, USA)

*Granular Location-based Cluster in Wireless Sensor Networks*

**Necla Bandirmali, Ismail Erturk** (Kocaeli University, Turkey)

*Increasing the Reliability of Security Protocols for WSNs*

**Majid Samad Zamini, Leila Zare** (Azad University, Iran)

*A Reward Based Method to Wireless Sensor Network Clustering*

**Ali Salmasi, Mohammad Ali Jabraeil Jamali, Rahim Rashidi** (Islamic Azad University, Iran)

*MIGT: Novel Method for Interference aware CDS Construction in Wireless Sensor Networks*

**Reza Tati** (Islamic Azad University, Iran), **Fariborz Ahmadi** (Miyaneh University of Shabestar, Iran), **Rahim Rashidy** (Azad University of Boukan, Iran), **Faroog Ashkoti** (University of Mahabad, Iran)

*Designing and Simulation of a Distributed Algorithm for Quality of Service in Wireless Sensor Networks*

## DISCUSSIONS

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**17th October 2009**

<b>09.00 – 10.00</b>	<b>Breakfast at the hotel</b>
<b>10.30</b>	<b>Leaving the hotel</b>
<b>11.00 – 14.30</b>	<b>Sightseeing (Fire place, Mardakan Castle)</b>
<b>14.30 – 16.00</b>	<b>Lunch</b>
<b>16.30 – 19.00</b>	<b>Sightseeing (Boat tour in Caspian, Tea at sea-side)</b>
<b>19.00</b>	<b>Dinner</b>