

ICI 2008 Conference Program

23rd of September

Location: Technical University of Information Technology TUIT
108 Amir Temur Street, 700020, Tashkent, Uzbekistan

Tutorial Speakers: Dr. Luigi Fratta
Dr. Abduazizov Omonjon

24th of September

Location: Technical University of Information Technology TUIT
108 Amir Temur Street, 700020, Tashkent, Uzbekistan

TUIT ballroom

9:00 - 10:30 **Welcoming speeches**

Opening remarks

Keynote Speeches

Keynote speaker: Professor Luigi Fratta

Professor Dipartimento di Elettronica e Informazione of the Politecnico di Milano, Italy

Title: INTER-VEHICLES COMMUNICATION: A NEW FRONTIER OF ADHOC NETWORK

10:30 - 11:00 **Coffee breaks**

Session 1 **Bluetooth/Wireless LAN**

Session Chair: Ibraimov R.R., PhD.

11:00 - 12:00 **Application Remote Control Using Bluetooth**

Mohammed Abdul Qadeer, Mohammad Sarosh Umar, Rahul Agrawal and Amit Singhal

Downlink Performance of Handover Techniques for IEEE 802.16j Multi-hop Relay Networks

Jamil Sultan, M. Ismail and N. Misran

Designing and Implementing an Intelligent ZigBee and WLAN Enabled Robot Car

Markus Johansson, Keijo Haataja, Jarno Mielikäinen, Pekka Toivanen

The Effect of Interference in the Operation of ZigBee and Bluetooth Robot Cars

Jaana Suhonen, Keijo Haataja, Niina Päivinen, Pekka Toivanen

12:00 - 14:00 **Lunch**

Session 2 **Wireless Sensor/Ad Hoc Networks**

Session Chair:
14:00 - 15:00

Likontsev D.N., PhD.
A Base-station Oriented Anomaly Detection for Wireless Sensor Networks
H.Alipour, M.Gholami and A.Vahdani

Security-enhanced Energy-efficient Data Aggregation for Clusterbased Wireless Sensor Networks

Nguyen Xuan Quy, Mingi Kyung and Dugki Min

**Mobile Agent Intrusion Detection System For Mobile Ad Hoc Networks:
A Non-overlapping Zone Approach**

Farhan A.F. , Zulkhairi D. , M.T. Hatim

The Optimum Value of Alpha in the Pre-specified Coverage Control Algorithm in Wireless Sensor Networks to Achieve Minimum Active Nodes

Mokhtar Mapar, Alireza Haji Sotoudeh, Mohammadjavad Negahdar

15:00 - 15:30

Coffee breaks

Session 3 **Optical Communications**

Session Chair:
15:30 - 16:30

Radjabov T.D., Doctor of Science, Academic of Uzbek Academy of Science
Precise Analysis of Optical OFDM System In Direct and Diffused Optical Wireless Environment

Mohamed E. Khedr, Member IEEE, Moustafa H. Aly, Member OSA and Mohamed E. Tamazin

A Novel Design of Photonic Crystal Fiber with Ultra-Flattened Dispersion and Ultra-Low Loss

Sh. Mohammad Nejad, M. Aliramezani and M. Pourmahyabadi

Providing Multiclass of Services in Optical CDMA Packet Networks

Sina Khaleghi, Mohammad Reza Pakravan and Hadi Goudarzi

Numerical Analysis of Dispersion Properties of Hetrostructured Photonic Crystal Fibers

M. Pourmahayabadi and Sh. Mohammad Nejad

Correlation Multiplexing Method: Estimation of Capacity

D. Doroshenko, T.A.Isaev, V.K.Salakhutdinov

Session 4 **Simulation and performance Modeling**

Session Chair:
16:30 - 17:30

Usmanova N.B., PhD.
Most Known Vulnerabilities in Saudi Arabian Web Servers
Khaled S.Alghathbar, Maqsood Mahmud and Hanif Ullah

SAR Polar Format Implementation with MATLAB

Navneet Agrawal, K.Venugopalan

PeerMD: A P2P Molecular Dynamics Simulation Framework

Baohua Huang, Lin He, Yang Bao and Ruixuan Li

Simulation Analysis of Abis interface over IP over DVB-S2-RCS in a GSM over Satellite Network

S.B.Musabekov, P.K.Srinivasan, A.S. Durai and R.R.Ibroimov

The Model Of Calculating Of Electromagnetic Field Level Distribution In Piecewise Tunnel

A. V. Tsyunyak and D. N. Likontsev

Banquet Dinner

25th of September

Location: Technical University of Information Technology TUIT
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TUIT ballroom

Session 5 **Image Coding**

Session Chair: Gavrilov I.A., PhD.

9:30 - 10:30

Increase of TV Images Interframe Processing Effectiveness in Wavelet-codexs for Cellular Communication Systems

M.J. Suvorova, I.A. Gavrilov, A.A Chernyshov, M.I. Zimina

Object-oriented Processing of TV Images in Waveletcodexs for Cellular Communication Systems

I.A. Gavrilov, A.A Chernyshov, J.F.Kabanova, A.N.Puziy, D.A.Savitskaya, M. I. Zimina

On Optimal Coding of Visual Information for Rate-Controlled Communication

Evgeny Gershikov and Moshe Porat

Collecting Visual Analogue Scales and Health Assessment of Patients with Rheumatoid Arthritis and Ankylosing Spondylitis Using an USB Controller

Jaana Suhonen, Keijo Haataja, Niina Päivinen and Pekka Toivanen

10:30 - 11:00

Coffee breaks

Session 6 **Resource allocation/Scheduling and Quality of Service QOS**

Session Chair: Abduazizov O.A., PhD.

11:00 - 12:00

Subcarrier Opportunistic Proportional Fair Scheduling for OFDMA Systems

Mohamed Khedr, Ibrahim El-Rube, Yasser Hanafy and Hatem Abou-zeid

Differential Allocation of Bandwidth to Services Based on Priority

Mohammed A. Qadeer, Shahid Habib and A. Yazdan Javaid

Localized Quality-of-Service Routing Using Delay

Ahmed S. Alzahrani, Michael E. Woodward

Quality of Service is The Main Problem in Telecommunication Networks

L.R.Koneeva and I.M.Arhangelskaya

12:00 - 14:00

Lunch

Session 7 **Ultra Wide Band (UWB)**

Session Chair: Rakhimov T.G., PhD.

14:00 - 15:00

Content-driven UWB-based Location-aware Networking

Javohir Azizov, Olim Hidayov and Dipnarayan Guha

Detection Efficiency Of Non-Line- Ofsight Ultraviolet Communication System

Wang Yan-hong and Wu Jing-zhi

Novel Channel Estimation Method for Coherent IR-UWB

Injae Hwang, Jeong-been Kim, Younghwan Jin, Wangrok Oh and Jaemin Ahn

15:00 - 15:30

Coffee breaks

Session 8 Wireless, Mobile Communications

Session Chair:
15:30 - 16:30

Davronbekov D., PhD.

Cooperative Diversity in Wireless Networks Based on Best Relay Selection:4th G Mobile Communication

Chandra Prakash Singh and Dr.Parul Garg

Equal Power Allocation Scheme for Cooperative Diversity

Hadi Goudarzi and Mohamad Reza Pakravan

Designing and Implementing an Intelligent X-10-enabled Home: Studies in Home Intelligence

Taneli Laavola, Keijo Haataja, Jarno Mielik'ainen, Pekka Toivanen

Adoption of The Networks (3G) in Uzbekistan on Basis Radio Interface IMT-MC

Inogamov A.M

Modern Methodology of the Safety Risk Assessment in Mobile Communication Networks

B.Yu.Shomaksudov and R.H.Djurayev

End of the ICI2008 program

16:30 - 17:00

Invited Talk

Title: Modern Information Technology Projects for Postal Service

Speaker: G.Nazarova

Tashkent University of Information Technology (TUIT), Tashkent, Uzbekistan

Closing discussions and remarks