

# 2013 International Conference in central Asia on Internet ICI 2013

## The Next Generation of Mobile, Wireless and Optical Communications Networks with Application to Information and Communication Technologies

October 8-10, 2013  
Tashkent, Uzbekistan

**Organized by:**



SCCITT Republic  
of Uzbekistan



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## CONFERENCE PROGRAM

8<sup>th</sup> of October, 2013

*Location:* TUIT Conference Hall

|                    |  |
|--------------------|--|
| <b>9:00-10:00</b>  | <b>Registration</b>  |
| <b>10:00-12:00</b> | <b>Morning Tutorial</b>  |
| <b>12:00-13:30</b> | <b>Lunch</b>   |
| <b>13:30-15:30</b> | <b>Afternoon Tutorial</b>                                      |
| <b>15:30-16:00</b> | <b>Q&amp;A</b>   |
| <b>16:00-17:00</b> | <b>Administrative Session (ICI Steering Committee Meeting)</b> |

9<sup>th</sup> of October, 2013

*Location:* Dedeman Hotel, Conference Hall

|                    |  |
|--------------------|--|
| <b>9:00-10:00</b>  | <b>Registration</b>                                      |
| <b>10:00-10:30</b> | <b>Welcoming and Opening Ceremony</b>                    |
| <b>10:30-12:00</b> | <b>Keynote Speakers/Invited talk</b>                     |
| <b>12:00-13:30</b> | <b>Lunch</b>   |
| <b>13:30-17:00</b> | <b>Conference Sessions</b>                               |
| <b>17:00-18:00</b> | <b>Q&amp;A/Panel discussions</b>                         |
| <b>18:00-19:30</b> | <b>Banquet Dinner (DEDEMAN SILK ROAD TASHKENT Hotel)</b> |

10<sup>th</sup> of October, 2013

*Location:* TUIT Conference Hall

|                    |  |
|--------------------|--|
| <b>9:00-10:00</b>  | <b>Registration</b>                        |
| <b>10:00-12:00</b> | <b>Morning Panel Sessions/Invited talk</b> |
| <b>12:00-13:30</b> | <b>Lunch</b>                               |
| <b>13:30-17:00</b> | <b>Afternoon Panel Sessions</b>            |

8<sup>th</sup> of October, 2013

*Location:* TUIT Conference Hall

## Tutorials

10:00-12:00

Morning Tutorial

**Tutorial T1:**

**Challenges in the Wireless Sensor Communications Networks**

*by Professor Vivek S Deshpande*

12:00-13:30

Lunch

13:30-15:30

Afternoon Tutorial

**Tutorial T2:**

**Optical Network Systems and Devices**

*by Professor Dr. Alok Kumar Das*

9<sup>th</sup> of October, 2013

*Location: DEDEMAN Hotel Conference Hall*

10:00-10:30

Welcoming and Opening Ceremony

**Khurshid Mirzakhidov, Chairman of the State Committee for Communication, Informatization and Telecommunication Technologies of the Republic of Uzbekistan**

**Khakim Mukhitdinov, Rector of the Tashkent University of Information Technologies (TUIT)**

**Welcoming Speech from Conference General Sponsor  
Osman Turan, General Director of Ucell**

10:30-12:00

Keynote Speech

**Title: E-government strategy for developing country**  
*Professor Chul Soo LEE, Vice Rector -ICT Adviser of TUIT*

**Title: Cloud Computing Models in Information and Library Networks**  
*Professor Marat Rakhmatullaev, TUIT*

**Title: Model for Evaluating the Sustainability of Telecommunications Systems**  
*Professor R.I. Isaev, TUIT*

12:00-13:30

Lunch

9<sup>th</sup> of October, 2013

*Location: DEDEMAN Hotel Conference Hall*

Conference Sessions

13:30-17:00

Hall A

**SESSION 1: Information and Communications Technology in Medicine and Health Care, Education, Research and Science**  
**Selection of Architecture and Training Algorithms of Neural Networks for Classification Task Solutions**  
*by Otabek Khujaev, Oybek Allamov, Ortiq Ruzibayev*

**Semantic Adaptation of the English Terms of Information Technologies into the Uzbek Language**  
*by Durdona Kadirbekova*

**Main Factors Affecting Preservice Teacher Technology Training Programs**  
*by Yuksel Goktas, Suat Celik*

**Splitting of Kaolin into Individual Components under one Spatial Field**  
*by Kolesnikov Igor, Akbarkhodjaev Shamsiddin, Janibek Kurbanov, Akbarkhodjaev Khurshid, Alimkhodjaeva N.T*

15:00-15:30

Coffee Break

13:30-17:00  
Hall A

**SESSION 2: Mobile Communications and Network Management**

**Estimation of using Possibility in Backbone base Networks of Mobile Connection of Atmospheric Optic Systems Transmission by Reliability Criteria**

*by Timur Nasirov*

**Resilient Routing Scheme with Backup Path Selection in 6LoWPAN**

*by Yeon-Kyung Woo, Jong-Tae Park*

**Service Management Architecture for Scalable Group Communication Based on Mobile P2P Network**

*by Jong-Tae Park, Seung-Man Chun*

**Adaptive Preprocessing for Efficiently Compressing TV Images based on Pixel Brightness Transformation**

*by I.A. Gavrilov, S. E. Otto, A. N. Puziy*

**Applied Approaches for Planning and Optimization of CDMA-2000 based Mobile Networks**

*by Alisher Kh. Abdukadirov, Khaydar Madaminov, M. Azimov*

**Mathematical Model of Router for Research of Reliability of NGN**

*by Alevtina Aleksandrovna Muradova*

**Algorithm to the Method of Partial Search in Solving the Problem of Routing in Telecommunication Networks**

*by Otabek Khujaev, Oybek Allamov, Ortiq Ruzibayev*

13:30-17:00  
Hall B

**SESSION 3: Information and Communications Technology I**

**Student Class Attendance Monitoring With Face Recognition System Using Modified-SIFT Algorithm**

*by Muzaffar M. Djalalov, Telman D. Radjabov*

**Logical Channel Multiplexing in Associative Switching Networks**

*by Svetlana A. Sadchikova, Vladimir A.Son*

**Security Management and Emergency Transmission Management for Highly Reliable Health Monitoring Service in Wireless Mesh Network**

*by Seung-Man Chun, Yeung-Kyung Woo, Jong-Tae Park*

**Implementation of Spectral Transformations on Multi-core Processors**

*by Rahmatov F.A., Berdanov U.A., Kardashev M.S.*

**Structure of Security Monitoring System**

*by M.M.Karimov, K.A.Tashev, N.B. Nasrullaev*

**Model of Security Monitoring System**  
*by M.M.Karimov, A.A.Ganiev, K.A.Tashev*

**15:00-15:30**

**Coffee Break**

**Access Control Policy Subjects to Objects in Distributed Information and Communication Systems**  
*by Irgasheva D.Y., Abramov A.S.*

**Password Protection Against Unauthorized Access to Resources of Systems of a Mobile Communications**  
*by R.H. Djuraev, B.M. Umirazakov, O.R. Djuraev*

**The complex Analysis of the Project of Ensuring Information Security in Communication Systems. Information Security from the Point of View of the State and the Right**  
*by S.Yu. Yusupov, A.A.Abduraxmanov, E.I. Qurbonov*

**The Integration of Fuzzy-set Approach for the Complex Estimation of an Information Culture of User**  
*by Usmanov R.N., Khabirova D.N.*

**17:00-18:00**

**Panel Session**

**Compact Waveguide Devices and Switching Implementation in Optical Network**

**18:00-19:30**

**Banquet Dinner**

10<sup>th</sup> of October, 2013

Location: TUIT Conference Hall

Morning Panel Sessions

10:00-12:00

**SESSION 4: Wireless Communications and Cloud Computing**

**Distribution Laws Of Atmospheric Channels meteorological  
Visibility range of open optical Transmission systems**

*by Ibraimov R.R., Nasirov T.*

**Performance of CoopMAC Protocols Over CSMA/CA 802.11  
Protocols**

*by H.Srikanth.Kamath*

**A Realtime Algorithm to Monitor Coverage Variations in  
Mobile Wireless Sensor Networks**

*by Azade Fotouhi, Mohammadreza Razzazi*

**Power Management in Wireless Sensor Networks: Challenges  
and Solutions**

*by Mohamed Abdelaal, Oliver Theel*

**A Security Management for Cloud based Applications and  
Services with Diameter-AAA**

*by Sushil Kumar Sah, Saroj Shakya, Hariom Dhungana*

**A Novel Framework for Cloud Testing**

*by Ramin Nasiri, Sarah Hosseini*

10:00-12:00

**SESSION 5: Optical Communications and Networking**

**Using Photoluminescent Properties of Rare-earth Elements in  
a Fiber Optic Communication Systems (FOCS)**

*by Inogamov A.M.*

**Applying of the Fiber Laser for the Humidity Control in the  
Cable Water Drain of the Fiber-optical Line**

*by T.D. Radjabov, A.M. Nazarov, D.A.Davronbekov, Yu.V.  
Piseckiy, N.I. Gudkova, A. Tadjieva*

**Calculations of the Currents in OPGW on the base of Refined  
Model in Phase Coordinates**

*by Utkur Sharipov, Georgiy Egamnazarov*

**Wavelength Insensitive Couplers Using Polymeric Twin-Core  
Fiber** *by Avranil Das, Alok K Das*

12:00-13:30

**Lunch**

13:30-17:00

**Afternoon Panel Sessions**

13:30-17:00

**Session 6: E- and M- commerce, Application of ICT, UWB and  
RFID and Simulation, Modeling**

**E-payments development in the Republic of Uzbekistan**

*by Mansurova Makhina Yashnarovna*

**Structuring of Normative-Technical Documents in  
Information and Computing Environment Taking into**



**Account Ageing of Information**

*by V.G. Lim, I.G. Voevodin, N.B. Tashpulatova, B.T. Kabulov*

**Single-ended Ring Oscillator based Voltage Controlled Oscillator in 0.18 $\mu$ m CMOS Process for Wireless Communication Systems**

*by Jubayer Jalil, Siti Sarah Binti Md Salleh, Mamun Bin Ibne Reaz, Mohammad Tariqul Islam*

**The Method of Spectral Estimation of Voiced Speech Sounds**

*by Musaev M.M., Yuldasheva A.V.*

15:00-15:30

Coffee break

13:30-17:00

**Session 7: Information and Communications Technology II**

**Authentication Algorithm Based On The Random Number**

*Generator, by Tashev K.A., Arzieva J.T, Abdurahmanov A.A.*

**Methods and Algorithms to Control Information Authenticity during Transfer and Handling of Data of Continuous Objects on the basis of a Neuro-Fuzzy Network**

*by Akmal Rustamovich Ahatov, Gulsara Israilovna Zaripova*

**Methods and Algorithms to Selection of Informative Attributes for Optimization of Representation of Nonstationary Objects**

*by Djumanov Olimjon, Kholmonov Sunatillo*

**Cloud Computing Models in Information and Library Networks**

*by Marat Rakhmatullaev*

**Filters for Coarse and Fine Filters Traffic**

*by Yusupov Sabirjan Yusupjanovich, Gulomov Sh. R.*

**Method of Stochastic Search in the System to Monitoring and Correcting of Spelling in Electronic Texts**

*by Jumanov Israil Ibragimovich, Tishlikov Sul-ton*

**Virtual Keyboard and Fingers**

*by B.T. Kabulov, N.B. Tashpulatova*

**Dependable Systems through Region-Adherent Distributed Algorithms**

*by Jan Steffen Becker, Dilshod Rahmatov, Oliver Theel*

**Grid2Go A web based internet of things grid computing engine**

*by Tamir Erez, Nezer J. Zaidenberg*

**Case Report: Network Development at the Tashkent Pediatric Medical Institute**

*by Taro Iyama, Sherzod Ashirbaev, Igor Vikhrov*

15:00-15:30

Coffee break

17:00-18:00

Closing Remarks