



Tashkent University of Information
Technologies named after
Muhammad al-Khwarizmi



**INTERNATIONAL CONFERENCE ON INFORMATION SCIENCE AND
COMMUNICATIONS TECHNOLOGIES
APPLICATIONS, TRENDS AND OPPORTUNITIES**

<http://www.icisct2019.org/>

ICISCT 2019

CONFERENCE PROGRAM

4-6 November, 2019

Amir Temur 108, Tashkent Uzbekistan
Tashkent University of Information Technologies named after Muhammad al-Khwarizmi

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PROGRAM AT A GLANCE

4 NOVEMBER 2019

Location: TUIT Main Hall

09:00-18:00	Events at Main Hall of TUIT
09:00-10:00	Registration
10:00-10:15	OPENING CEREMONY
10:15-12:45	KEYNOTE SESSIONS
13:00-14:00	Lunch
14:00-14:30	TUTORIAL SESSIONS

5 NOVEMBER 2019

Location: TUIT Auditories

10:00-18:00	SESSSION 1
10:00-18:00	SESSSION 2
10:00-18:00	SESSSION 3
10:00-18:00	SESSSION 4
10:00-18:00	SESSSION 5

6 NOVEMBER 2019

Location: TUIT Auditories

10:00-18:00	SESSSION 1
10:00-18:00	SESSSION 2
10:00-18:00	SESSSION 3
10:00-18:00	SESSSION 4
10:00-18:00	SESSSION 5

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NOVEMBER, 2019

Location:

Amir Temur 108, Tashkent, Uzbekistan

TUIT MAIN HALL

4 November 2019	
Location: TUIT named after Muhammad al-Khwarazmi	
09:00-10:00	Registration
10:00-10:15	OPENING CEREMONY
	Rector: Dr.Teshabayev Tulkin Zakirovich <i>TUIT named after Muhammad al-Khwarazmi</i>
10:15-12:45 Hall: Main	KEYNOTE SESSION
10:15-10:45	Speaker: Dr. Alain Abran <i>Department of Software and IT Engineering École de technologie supérieure, Canada</i> Title: Software Effort Estimation: 'Fake Science' or 'Best Practices'
10:45-11:15	Speaker: Prof. Dae Joon Hwang, Ph.D. <i>Computer Engineering Department, Software College of Sungkyunkwan University, Republic of Korea</i> Title: Intelligent Transformation of Technologies for Higher Education Innovation
11:15-11:45	Speaker: Prof. Mohamed-Slim Alouini <i>Computer, Electrical, and Mathematical Science and Engineering (CEMSE) Division King Abdullah University of Science and Technology (KAUST), Kingdom of Saudi Arabia</i> Title: Addressing spectrum scarcity through hybrid optical and radio-frequency wireless networks
11:45-12:15	Speaker: Prof. Paata J. Kervalishvili <i>Georgian Technical University, Georgia</i> Title: Quantum Information Technology and Quantum Biosystems
12:15-12:45	Speaker: Prof. Dr Ahmed Seffah <i>Zayed University, United Arab Emirates</i> Title: Connected objects-human interactions design for user engagement and greening their mindsets
12:45-14:00	Lunch
14:00-18:00 Hall: Main	TUTORIAL
14:00-15:00	Speaker: Dr. Alain Abran <i>Department of Software and IT Engineering École de technologie supérieure, Canada</i> Title: Can you measure software before it even exists?
15:00-16:00	Speaker: Prof. Dae Joon Hwang <i>Computer Engineering Department, Software College of Sungkyunkwan University, Republic of Korea</i> Title: Practicing Innovative Pedagogies in Higher Education
16:00-17:00	Speakers: Prof.Abderrahmen Trichili, KAUST, Kingdom of Saudi Arabia Prof. Boon S. Ooi, <i>Professor of Electrical Engineering at KAUST, Kingdom of Saudi Arabia</i> Prof. Mohamed-Slim Alouini, KAUST, Kingdom of Saudi Arabia Title: Towards High Speed Optical Wireless Communications using Spatially Structured Light
17:00-18:00	Speaker: Prof. Heung-Gyoon Ryu <i>Department of Electrical, Electronic and Computer Engineering, Chungbuk National University, Republic of Korea</i> Title: Waveform design for the Beyond 5G and Next Mobile communication system

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NOVEMBER, 2019

Location:

Amir Temur 108, Tashkent, Uzbekistan

TUIT Auditorium

SESSION 1

INFORMATION AND COMMUNICATIONS TECHNOLOGIES, NETWORKING, CLOUD COMPUTING, DESIGN SMART CITIES AND ITS APPLICATION

Time: 10:00 – 18:00

TUIT HALL

11:00-11:20 Coffee Break

12:30-14:00 Lunch

15:00-15:20 Coffee Break

- 1. Results of Calculations of Parameters of Reliability of Restored Devices of the Multiservice Communication Network**
by Muradova Alevtina, Khujamatov Khalimjon, Tashkent university of information technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 2. The probability model of railway transport system activity**
by Jiyanbekov Khurshidbek, Usmonov Jonibek, Azimov Sarvarbek, Tashkent university of information technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 3. Intellectual algorithms and information systems for the education process**
by Rakhimov Akmal, Tashkent university of information technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 4. Development of medical information systems**
by Primova Holida, Sakiev Temur, Nabieva Sevara, Samarkand branches of Tashkent university of information technologies named after Muhammad al-Khwarazmi, Samarkand, Uzbekistan.
- 5. Information Security Issues For Travel Companies**
by Zaynalov Nodir, Mukhamadiev Abdinabi, Bekmurodov Ulugbek, Mavlonov Obid, Kiyamov Jasur, Qilichev Dusmurod, Samarkand branches of Tashkent university of information technologies named after Muhammad al-Khwarazmi, Samarkand, Uzbekistan.
- 6. The Research Of Reliability Indicators Transport Systems Multi - Service Network Based Fuzzy Set Theory**
by Nishanbayev T.N, Tashkent university of information technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan; Yakubova M.S., Amreev M. Almaty University of Energy and Communications, Alma-Ata, Kazakhstan.
- 7. Transport System Reliability Study Multi-Service Network Based On Simulation**
by Nishanbayev T.N, Tashkent university of information technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan; Yakubova M.S., Amreev M., Sadikova G.S., Almaty University of Energy and Communications, Alma-Ata, Kazakhstan.
- 8. The use of technology in corpus linguistics**
by Sharipova Aziza, Tashkent university of information technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 9. Data Transmission Method on the Basis of Reinforcement Learning**
by Amirsaidov U., Qodirov A.A., Tashkent university of information technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 10. The Applicability of Corpus Linguistics in the Field of Linguistics**
by Sharipova Aziza Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 11. Quantitative analysis of the regulatory mechanisms of living systems to identify effective influence points during anomalies**
by Saidaliev Mahruy, Hidirova Mohiniso, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 12. Problems of increasing efficiency of NIDS by using implementing methods packet classifications on FPGA**
by Karimov M., Tashev K., Yoriqulov M., Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 13. Power providing methods for wireless sensors**

by Davronbekov D., Aliev T., Isroilov J., Alimdjanov X., Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.

14. Algorithms for multithreaded parallel processing of signal on heterogeneous digital telecommunication system

by Khamdamov Utkir, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.

15. An Evaluation of 2.4 GHz and 5 GHz ISM Radio Bands Utilization in Backhaul IP Microwave Wireless Networks

by Ahmed Qaddus, Bahria University, Islamabad, Pakistan.

16. A model of the regulatory mechanisms of liver cells in hepatitis B viruses (HBV) and its latent form

by Hidirova Mohiniso, Turgunov Abrorjon, Scientific and Innovation Center of Information and Communication Technologies at Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

17. Mathematical modeling of regulatory mechanisms of cardiological pathologies in the tumor process

by Saidalieva Mahruy, Mohiniso Hidirova, Scientific and Innovation Center of Information and Communication Technologies at Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Margarita Gildieva, Republican Cancer Research Center of the Ministry of Health of the Republic of Uzbekistan, Tashkent, Uzbekistan; Abduvaliev Anvar, Tashkent Medical Academy, Tashkent, Uzbekistan.

18. Development of a method to build Fiber Bragg grating-based sensors

by Abdujalilov Javlonbek, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Yakubova Muborak, Zhunusov Kanat, Orazalieva Sandugash, Konshin Sergey, Yakubov Bakhodir, Golubena Tatyana, Institute of Space Engineering and Telecommunications Almaty University of Power Engineering and Telecommunications), Almaty, Kazakhstan.

19. Electromagnetic Processes Occuring On Interface Boundaries

by Gubenko V., Shakhobiddinov A., Kan V., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

20. Virtual Fence Moving Algorithm for Circulated Grazing

by Sattarov Otabek, Azamjon Muminov, Heung Seok Jeon, Cheol Won Lee, Hyun Kyu Kang, Konkuk University Chungju, Rep. of Korea; Hyung Jun Oh, Department of Computer Information Yeungnam University College Daegu, Rep. of Korea; Jun Dong Lee, Department of Multimedia Engineering Gangneung-Wonju National University Gangneung, Rep. of Korea.

21. The model of forming the structure of the “cloud” data center

by Nishanbayev T., Abdullayev M., Maxmudov S., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

22. Modelling of transducers of nonsymmetrical signals of electrical nets

by Siddikov I., Abdumalikov A., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Anarbaev M., Xonturaev I., Djizak Polytechnic Institute, Djizak, Uzbekistan; Abdubakirov A., Karakalpak State University, Nukus, Uzbekistan; Maxsudov I., Andijan Mashinobuilding Institute, Andijan, Uzbekistan.

23. Modeling and Research of Automatic Sun Tracking System on the bases of IoT and Arduino UNO

by Khujamatov Kh.E., .Khasanov D.T., Reypnazarov E.N., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

SESSION 2

BIG DATA, E- AND M- COMMERCE, SIMULATION, MODELING, ANALYSIS AND PERFORMANCE EVALUATION, NETWORK MANAGEMENT, GAME THEORY AND ITS APPLICATIONS

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

12:30-14:00 Lunch

15:00-15:20 Coffee Break

- 1. Analysis and research of capacity, latency and other characteristics of backbone multiservice networks based on simulation modeling using different routing protocols and routers from various manufacturers for using the results when designing and modernization of multiservice networks**
by Teshabayev T., Nishanbayev T., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Yakubova M., Yakubov B., Golubeva T., Sadikova G., Institute of SE and T Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan.
- 2. Synthesis of Adaptive Control Systems of a Multidimensional Discrete Dynamic Object with a Forecasting Models**
by Siddikov Isamiddin, Umurzakova Dilnoza, Tashkent State Technical University, Tashkent, Uzbekistan.
- 3. Neuro-fuzzy Adaptive Control system for Discrete Dynamic Objects**
by Siddikov Isamiddin, Umurzakova Dilnoza, Tashkent State Technical University, Tashkent, Uzbekistan.
- 4. The study of the influence of the gamma function on the flutter velocity**
by Usmonov Botir, Rakhimov Quvvatali, Akhror Akhmedov, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 5. Analysis of the relationship between the indicators of controllability and reliability characteristics of data transmission systems**
by Djuraev.R.X., Djabbarov.Sh.Yu., Toshtemirov T.D., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 6. Comparison of the molecular descriptors efficiency in modeling the structure-activity relationship**
by Adilova Fatima, Rifkat Davronov, Institute of Mathematics Academy of Sciences, Tashkent, Uzbekistan; Bakhtiyor Rasulev, Department of Coatings and Polymeric Materials North Dakota State University, Fargo, North Dakota, USA.
- 7. Digital signal processing based on spline functions**
by Mirzaev Avaz, Khalilov Sirojiddin, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 8. A mathematical model of the diffusion process of sewage and channel waters mixing**
by Yakhshibaev Donior, Usmonov Alisher, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Khudaykulov Savet, Scientific-Research Institute of Irrigation and Water Problems of the Ministry of Water Economy of the Republic of Uzbekistan. Tashkent, Uzbekistan.
- 9. Assessment features and appearance reasons of risks in E- payment systems**
by Abdul-Azalova Makhina Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 10. Implementation of object-oriented programming technology in the one-dimensional oil displacement problem**
by Uzakov Zair, Mamatov Farmon, Begulov Olmos, Karshi branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

11. **U-Net Architecture Application to Nuclei Cell Detection**
by Marina Lukashevich, Natalia Iskra, *Electronic Computing Machines Department Belarusian State University of Informatics and Radioelectronics Minsk, Belarus.*
12. **Simulation of electrical resistivity tomography curves in a three-dimensional medium with a ground surface relief and immersed inhomogeneity**
by Turarova Marzhan, Mirgalikyzy Tolkyn, Mukanova Balgaisha, *Computer Engineering L.N. Gumilyov Eurasian National University, Nur-Sultan, Kazakhstan; Kaznacheev Pavel, The Schmidt Institute of Physics of the Earth Russian Academy of Sciences, Moscow, Russia*
13. **Computational algorithm for calculating magnetoelastic flexible plates of complex configuration**
by Nuraliev Fakriddin, *Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Safarov Shohruh, Scientific and Innovation Center of Information and Communication Technologies at Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.*
14. **Constructing a model of the process of receiving and storing oilseeds in oil and fat enterprises through the Petri net**
by Muminov Bakhodir, *Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Eshankulov Khamza, Bukhara State University, Bukhara, Uzbekistan.*
15. **Mathematical simulation and the methods to assess the strength of earth dams**
by Mirsaidov M., Sultanov T., Yarashov J., *Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; KHujanazarova N., Urazmukhammedova Z., Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi, Tashkent, Uzbekistan.*
16. **Using the methods and optimizing criteria in making the managing decisions of agricultural production**
by Uteuliev N.U., Qutlimuratov Yu.Q., Yadgarov Sh.A, *Nukus branch of Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi, Tashkent, Uzbekistan.*
17. **Sustainable Algorithms for Assessing the Condition of Objects Based on the Kinematic Model**
by Igamberdiev Husan, *Tashkent State Technical University, Tashkent, Uzbekistan; Abdurakhmanova Yulduz, Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi, Tashkent, Uzbekistan.*
18. **Situational Management of Complex Information Systems Based on Fuzzy Correspondence Models**
by Rakhmatullaev Marat, *Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi, Tashkent, Uzbekistan.*
19. **Multifunctional heat converter moisture content of liquid materials**
by Avezova Nazokat, Ismatullayev Patxilla, Matyakubova Paraxat, Boboyev Gaybulla, *Tashkent state technical university, Tashkent, Uzbekistan.*
20. **An Overview of Data Visualization**
by Mohaiminul Islam, Shangzhu Jin, *School of Intelligent Technology and Engineering Chongqing university of Science and Technology, Chongqing, China.*
21. **IMRT Verification, Analysis and Performance Evaluations: Modeling of Dose Delivery by Shifting MLC Angel and Phantom Position**
by Zhdanov Aleksei E., Borisov Vasilii I., Dorosinsky Leonid G., *Institute of RE and IT-RTF Ural Federal University named after the first President of Russia B.N.Yeltsin, Yekaterinburg, Russia.*
22. **Modeling, Analysis and Performance Evaluations of Phantom Positioning by Using kV X-ray Imaging, CBCT, and IR Camera**
by Zhdanov Aleksei E., Borisov Vasilii I., Dorosinsky Leonid G., *Institute of RE and IT-RTF Ural Federal University named after the first President of Russia B.N.Yeltsin, Yekaterinburg, Russia.*

SESSION 3

ARCHITECTURES, DEVICES, SECURITY AND PRIVACY, WIMAX , 4G, 5G SYSTEMS AND 6G, HIGHER LAYERS OF PROTOCOLS AND APPLICATIONS, OPTICAL PASSIVE AND ACTIVE COMPONENTS AND DEVICES

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

12:30-14:00 Lunch

15:00-15:20 Coffee Break

- 1. An application of RNN to the inverse-QSAR problem**
by Ikramov Alisher, Fatima Adilova, Laboratory of Biomedinformatics Institute of Mathematics, Tashkent, Uzbekistan.
- 2. 5G technology evolution**
by Usmonov Botir, Deputy Minister of Economy and Industry of the Republic of Uzbekistan; Radjabov Ozod, Rustamov Umedjon, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 3. Upgrading Higher Education through Open Online Courses**
by Shadmanova Gulchera, Mirzaev Sayibdjan, Karimova Xabiba, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 4. Definition of synchronization processes during parallel signal processing in multicore processors**
by Zayniddinov Xakimjon, Mallayev Oybek, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 5. Mathematical and software of fractal structures from combinatorial numbers**
by Nuraliyev Faxriddin, Anarova Shahzoda, Narzullayev Oybek, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 6. Calculation of losses for transpiration in water reservoirs with using new computer technologies**
by Arifjanov Aybek, Apakhodjaeva Tursunoy, Akmalov Shamshodbek, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 7. Factors of information technologies in intercultural integration process**
by Yuldasheva Makhpuza, Uzbekistan State World Languages University; Ezozkhon Karimova, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 8. Formalization of the business process security**
by Gulomov Sherzod, Ganiev Abdukhalil, Vaade Viktoriya, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 9. Information Technology in Cinematography**
by Abdurahimov Askar, Abdurahimova Svetlana, Valieva Ranohon, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 10. Formation of Relational Structures of Information Identification Models for Insecta Orthoptera Bioobject**
by Kholmatov Bakhtiyor, Head of Institute of Zoology of the Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan; Hudayberdiev Mirzaakbar, Scientific and Innovation Center of Information and Communication Technologies, Tashkent, Uzbekistan.
- 11. Curriculum Development as a Task of Optimizing the Educational Process in Educational Institutions**
by Kasimova Shoista, Kasimov Saidaminxon, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 12. Innovative approaches in reshaping activities of the Department “Information and Library Systems”**
by Ganieva B., Arakelov S., Tashkent University of Information Technologies named after

- 13. Expression of emotive words in the language and speech**
by Abduvakhabova Dilnoza, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 14. Mobile applications as a modern means of learning english**
by Safarova Fotima, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 15. Information support of devices for determining antioxidant activity by concentration of oxygen based on a luminescent sensitive element**
by Gulyamov Sh.M., Shamsutdinova V.Kh., Tashkent State Technical University, Tashkent, Uzbekistan.
- 16. Modeling the problem of horizontal drainage on irrigated lands**
by Begmatov Ilkhom, Aynakulov Sharafidin, Baydillayev Sanjar, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 17. Projecting parametres trade electronic platform**
by Aktamov Shokhrukhbek, Beknazarova Saida, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 18. Development of an information and logistics system “InfLog-CredSys” for managing big data in the yii framework for use in a credit training system**
by Aliqulov A.X., Yadgarov T.G., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 19. Formation Relational Structures of Dataset of the Insecta Orthopteroidea for Identification Models**
by Kholmatov Bakhtiyor, Institute of Zoology of Academy Sciences of Republic of Uzbekistan, Tashkent, Uzbekistan; Hudayberdiev Mirzaakbar, Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 20. Approches to the Construction of Fuzzy Models of Intellectual Analysis of the State of the Low- Formalized Processes**
by Muhamediyeva D.T., Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 21. Two-dimensional Model of the Reaction-Diffusion with Nonlocal Interaction**
by Muhamediyeva D.T., Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 22. Dialogue Algorithm of Adoption of Multi-criterial Decisions in the Fuzzy Environment**
by Solieva B.T., Sotvoldiev D.M., Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 23. Analysis of Prospects of Technology of Intelligent Monitoring Systems**
by Mirzaraxmedova A.X, Fozilova M.M., Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.

SESSION 4

IOT, APPLICATION OF INFORMATION AND COMMUNICATIONS TECHNOLOGIES, NOVEL FIBERS AND FIBER-BASED DEVICES, INTERNET APPLICATION, OPTICAL NETWORKS AND TRANSMISSION SYSTEMS

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

12:30-14:00 Lunch

15:00-5:20 Coffee Break

- 1. Web quest as a method formation teacher's scientific and methodological activity**
by Rysyukova Yulia, JV "Novda Edutainment", Tashkent, Uzbekistan.
- 2. To the problem of forming creative information – communication competence of the principal of general education school**
by Zakirova Madina, Retraining and In-Service Institute of Managers and Specialists of Public Education System named after A. Avloni, Tashkent, Uzbekistan.
- 3. Ways to develop innovative processes in grain production**
by Avezova Nazokat, Matyakubova Paraxat, Boboyev Gaybulla, Tashkent state technical university, Tashkent, Uzbekistan.
- 4. SMART SCHOOL in Uzbekistan**
by Sindarov Sherzod, Radjabov Ozod, Rustamov Umedjon, Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi Tashkent, Uzbekistan; Avezova Mohigul, Tashkent institute of finance, Tashkent, Uzbekistan.
- 5. Information systems in water management**
by Shadmanova Gulchera, Karimova Khabiba, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 6. To improve the content of methodical preparation of future teachers of informatics on the basis of Web technologies**
by Khaytullaeva Nafia, Tashkent State Pedagogical University, Tashkent, Uzbekistan; Zakirova Feruza, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi Tashkent, Uzbekistan.
- 7. Estimating of national economy's investment attraction**
by Sterenharz Arnold, Technical University of Berlin Germany, Berlin, Germany; Radjabov Ozod, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Avezova Mohigul, Tashkent institute of finance, Tashkent, Uzbekistan.
- 8. Selecting suitable deep learning network for face recognition**
by Islomov Shahboz, Mardiyev Ulugbek, Davronova Lola, Khamidov Sherzod, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi Tashkent, Uzbekistan.
- 9. Method of analyzing of antivirus errors when audit provides**
by Nasrullaev Nurbek, Holimtaeva Ikbol, Islomov Shahboz, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 10. Mathematical model of the processes of step-by-step processing of organic waste**
by Imomov Shavkat, Sultonov Mansur, Aynakulov Sharafiddin, Usmonov Kamoliddin, Khafizov Otabek, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 11. Ways of improving marketing communications**
by Andryakov Anton, Baltic State Technical University Sant-peterburg, Rossiya; Sindarov Sherzod, Radjabov Ozod, Asqarova Dilorom, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Avezova Mohigul, Tashkent institute of finance, Tashkent, Uzbekistan.

12. **Algorithm for calculating the processes of salt transfer in soils on reclaimed lands**
by Yusupov Majid, Pardaboev Anvarjon, Kubyashev Kurash, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; Mavlanov Sobirjon, Tashkent State University of Economics, Tashkent, Uzbekistan.
13. **Information model and criteria for the completeness of certification of foreign trade goods of the Single Window customs information system of the Republic of Uzbekistan**
by Saidov Abdusobir, Khakimova Fazilat, Dusmukhamedov Alisher, State Customs Committee; Tashkent, Uzbekistan
14. **Analysis of Security Protocols in Wireless Sensor Networks**
by Khudoykulov Zarif, Shirinov Laziz, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
15. **Development of creativity of learners in the courses of advanced training and retraining of pedagogical staff in the process of studying the course “Innovative educational technology”**
by Pozilova Shakhnoza, Tashkent State Pedagogical University, Tashkent, Uzbekistan
16. **Security issues in E-Learning system**
by Fayziyeva Dilsora, Islomov Shahboz, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Yuldasheva Nafisa, Tashkent State technical university named after Islam Karimov, Tashkent, Uzbekistan.
17. **Informational ensuring innovative management of higher education system**
by Ismadiyarov Yashin, Nabiulina Luiza, Tashkent state pedagogical university, Tashkent, Uzbekistan.
18. **Algorithm for the control of receivables in the declaration of foreign trade goods in real time**
by Donokulov Nodir, Saidov Abdusobir, Abdurakhmonov Tokhir, State Customs Committee, Tashkent, Uzbekistan.
19. **Review of Analysis on IoT Components, Devices and Layers Security Threats**
by Mira Fahad, School of Computer Science and Technology University of Bedfordshire, Luton, UK; Izzat Alsmadi, Department of Computing and Cybersecurity University of Texas A&M.
20. **Study of a transmission-reception system of the voice signal of increased security on the basis of generator of chaotic oscillations**
by Yakubov Bakhodir, Vladimir Artyukhin, Rafail Safin, Institute of SE and T, Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan.
21. **Data transferring with encryption algorithms in multi-platform information system climate control of buildings**
by Agzamov Fayzulla, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan; Dana Tananova, Faculty of Information Technology, Al-Farabi Kazakh National University, Almaty, Kazakhstan; Almas Nurlanuly, Sergey Konshin, Bakhodir Yakubov, Institute of Space Engineering and Telecommunications, Almaty University of Power Engineering and Telecommunications Almaty, Kazakhstan.
22. **Research and comparative analysis of phaso-inverter cascades with single-polar power supply**
by Rakhmatullaev Marat, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan; Yakubov Bakhodir, Kulikov Andrey, Safin Rafail, Artyukhin Vladimir, Satimova Elena, Institute of SE and T, Almaty University of Power Engineering and Telecommunications Almaty, Kazakhstan
23. **Power amplifier with injection-voltaic transistor with quiescent current stabilization**
by Aripov Khayrulla, Toshmatov Shunqorjon, Aripova Umida, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
24. **Animal Habit Monitoring System on the Road side to avoid animal collisions with Support Vector Machine Model.**
by Rakhimov Kayumbek, Ibragimov Akhadjon, Ryum-Duck Oh, Korea National University of Transportation Chungju, Korea; Jun-Dong Lee, Wonju National University, Wonju, Korea.

SESSION 5

HEALTH SERVICE DEVELOPMENT AND MANAGEMENT, CYBER SECURITY, BUSINESS, FINANCE AND ECONOMY, GOVERNANCE AND GOVERNMENT POLICY, EDUCATION, HUMANITIES, SOCIAL SCIENCES, MEDICINE AND HEALTH CARE AND OTHERS

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

12:30-14:00 Lunch

15:00-15:20 Coffee Break

- 1. Providing resources in Fog Computing infrastructure: considerations on performance requirements**
by Usmanova N., Abdujalilov J., Suyunov A., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 2. Parallel Signal Processing Based-On Graphics Processing Units**
by Khujayorov Ilyos, Ochilov Manon, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 3. Efficiency Estimation of the Inter-Frame Coding of Modern Video Codecs**
by Gavrilov Igor, Nosirov Khabibullo, Puziy Anastasia, Rakhimov Tokhir, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 4. Principle of organizing database identification on mobile devices by IMEI**
by Davronbekov D.A., Isroilov. J.D., Akhmedov B.I., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 5. Monitoring Railway Turnout using its Moving Traces**
by Lapasov Furkat. Jongwoo LEE, Kyuhyoung CHOI, Seoul National University of Science and Technology Seoul, Republic of Korea.
- 6. Image Filtering Algorithm Based On The Analysis Of The Main Components**
by Nosirov Khabibullo, Norinov Muhammadyunus, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Abdukadirov Bakhtiyor, Fergana branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Fergana, Uzbekistan.
- 7. Virtual Keyboard and Fingers**
by Kabulov Bakhrom, Joint-stock Company "Uzneftegazinformatika" Tashkent, Uzbekistan; Tashpulatova Nadira, Akbarova Marguba, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 8. Statistical properties of a periodically modulated radiation in a multimode fibers**
by Akhmadzhanov T., Nasirov A., National University of Uzbekistan, Tashkent, Uzbekistan.
- 9. Graph representation of the mechanism of exchange of information flows in computer networks**
by Nigmatov Zafarjon, Tashkent State Technical University, Tashkent, Uzbekistan.
- 10. Formalization of the criterion of efficiency of the message management information and telecommunications network**
by Nigmatov Zafarjon, Tashkent State Technical University, Tashkent, Uzbekistan.
- 11. Integration of virtual reality and 3D modeling use of environments in education**
by Nuraliyev Faxriddin, Giyosov Ulugbek, Jiyanov Oybek, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Giyosov Ulugbek, Jiyanov Oybek, Samarkand branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Samarkand, Uzbekistan.
- 12. Evaluation of Low Cost Laser Scanner for Rapid Registration of Point Clouds with Limited Information on Rotation and Relative Location**
by Takhirov Shakhzod, Univerity of California – Berkeley, Berkeley, USA; Sultan Kudratov, Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi,

- 13. How we can calculate average data rate of broadband access from rural settlement**
by Sadchikova Svetlana, Abdujapparova Mubarak, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 14. Language in the system of artificial intelligence**
by Ibragimova N.A., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 15. ICT terminologies in learning english**
by Mavlonova Mavluda, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 16. Professional competence of a foreign language teacher in a technical university**
by Atashikova Nilufar, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 17. Enhancing ICT Technologies in Teaching, Learning and Assessment of foreign languages in Uzbekistan**
by Bakieva G.Kh., Muradkasimova K.Sh., Uzbekistan State World Languages University, Tashkent, Uzbekistan.
- 18. Choice of optimal options for land use of farms with the application of information technologies**
by Karimova Khabiba, Shadmanova Gulchera, Ziyaeva Sholpan, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 19. Model and algorithm for solving one-dimensional two-phase of filtration task**
by Tuhtanazarov Dilmurod, Xolmatova Iroda, Khamidullayev Abdulbosir, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 20. Calculating methodology for information characteristics on chemical preprojection**
by Gulyamov Shuxrat, Tashkent State Technical University, Tashkent, Uzbekistan, Zaynutdinova Mastura, Khojiev Nasiba, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 21. A Novel Reputation Model for Trusted Path Selection in the OLSR Routing Protocol**
by Shcherba Evgeny V., Litvinov George A., Shcherba Maria V., Omsk State Technical University Omsk, Russia.

ICISCT2019



NOVEMBER, 2019

Location:

Amir Temur 108, Tashkent, Uzbekistan

TUIT Auditorium

SESSION 1

INFORMATION AND COMMUNICATIONS TECHNOLOGIES, NETWORKING, CLOUD COMPUTING, DESIGN SMART CITIES AND ITS APPLICATION

Time: 10:00 – 18:00

TUITAuditory

11:00-11:20 Coffee Break

12:50-14:00 Lunch

15:30-15:50 Coffee Break

1. **Perfection Of Standard Documents And System Requirements In The Field Quality Of Service NGN**
by Amirsaidov U., Nurmatova S. Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
2. **Model For Building Wireless Sensor Networks**
by Muzafarov Farruh, Abdimurod Eshmuradov, Khaytbayev Aybek, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
3. **Analysis of projecting the electronic trading system**
by Beknazarova Saida, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan; Beknazarov Kamoliddin, Journalism and Mass Communications of the Republic of Uzbekistan, Tashkent, Uzbekistan, Ruslan Bazhenov, Information Systems and Mathematics, Sholom-Aleichem Priamursky State University, Birobidzhan, Russian Federation.
4. **Processing color images, brightness and color conversion**
by Beknazarova Saida, Mukhamadiyev Abduvali, Jaumitbayeva Mehriban, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
5. **Distribution Model of Heterogeneous Flow in a Software-Defined Multiservice Network**
by Nishanbayev Tuygun, Mahmudov Salimjon, Abdullayev Mirjamol, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
6. **Technological aspects of modelling and research of smart grid**
by Siddikov I., Abdumalikov A., Sobirov M., Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan; Anarbaev M., Xonturaev I., Djizak Polytechnic Institute; Maxsudov M., Department of Electrotechnic, electromechanica, electrotechnologies" Andijan Mashinobuilding Institute, Andijan, Uzbekistan
7. **Robust Text Recognition for Uzbek Language in Natural Scene Images**
by Mukhiddinov Mukhriddin, Akmuradov Bakhtiyor, Djuraev Oybek, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan
8. **One of the methods for assessing the reliability of a communication network**
by Mirzaeva Malika, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi; Sulaymonov Anvar, the Center for Creation of Software Products and Machine Software Complexes under Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
9. **A method of mapping f block mfin memory to cfche in parallel processing of the speech signal**
by Musaev Muhammadjon, Mekhriddin Rakhimov, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
10. **Optimization of the structure of communication networks by cost criterion**
by Parsiev Saydiakhad, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
11. **Analysis of the routing methods and Internet models for IoT**
by Khoshimov Jamshid, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.

- 12. Big data analysis for soil monitoring in smart farming**
by Kuchkorov Temurbek, Nozima Atadjanova, Sayfullaeva Nargiza, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 13. Hybrid Automaton Implementation For Intelligent Agents' Behavior Modelling**
by Klebanov Boris, Antropov Timofey, Zvereva Olga, IRIT-RTF Ural Federal University Ekaterinburg, Russian Federation.
- 14. IT Team Building for Experiential Learning**
by Zvereva Olga, Artyom Muravyov, IT&A Ural Federal University Ekaterinburg, Russian Federation
- 15. Practical application of methods of visual modeling in object-oriented design of information systems**
by Spiricheva Nataliya, Anastasia Kokovina, IT&A Ural Federal University Ekaterinburg, Russian Federation
- 16. Scene Text Detection and Localization using Fully Convolutional Network**
by Mukhiddinov Mukhriddin, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 17. The formation of the structure of a multiservice network based on communication equipment from different manufacturers**
by Teshabayev T., Nishanbayev T. Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Yakubova M., Amreev M., Sadikov G., Academician of Kazakhstan, Almaty University of Power Engineering and Telecommunications, Alma-Ata, Kazakhstan.
- 18. The Axiomatic Approach to Definition of Interval Relations**
by Ruzibaev Ortik, Sayfullaev Sherzod, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Kabulov Rustam, Department of Information Technologies International Islamic Academy of Uzbekistan, Tashkent, Uzbekistan.
- 19. Spatiotemporal Airy beam modulated by elegant Laguerre and elegant Gaussian function in free space**
by Xiaping Zhang, College of Electronic Engineering Nanjing Xiaozhuang University, Nanjing China.

SESSION 2

BIG DATA, E- AND M- COMMERCE, SIMULATION, MODELING, ANALYSIS AND PERFORMANCE EVALUATION, NETWORK MANAGEMENT, GAME THEORY AND ITS APPLICATIONS

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

11:50-14:00 Lunch

15:00-15:20 Coffee Break

- 1. Verification of the pocket filtering based on method of verification on the model**
by Yusupov Bakhodir, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Toshev Sarvar, Computer science, automation and management department, assistant, Shakhrisabz branch of the Tashkent Chemical-Technological Institute, Shakhrisabz, Uzbekistan; Nishanov Islom, Military Institute of Information and Communication Technology and Communication Tashkent, Uzbekistan.
- 2. Game theory and its application in agriculture (greenhouse complexes)**
by Durmanov Akmal, Azamjon Tulaboev, Marina Li, Azizahon Maksumkhanova, Mamurjon Saidmurodzoda, Otabek Khafizov, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 3. Electronic invoice system database architecture issues and the possible solutions**
by Ostonov Mukhriddin, Scientific-information Center of New Technologies under State Tax Committee of the Republic of Uzbekistan, Tashkent, Uzbekistan.
- 4. Estimation affects of formats and resizing process to the accuracy of convolutional neural network**
by Muminov Bakhodir, Nasimov Rashid, Gadoyboyeva Nigora, Mirzahalilov Sanjar Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi Tashkent, Uzbekistan.
- 5. Computer simulation of the convection process near a vertically located source**
by Jumayev Jura, Shirinov Ziyomat, Bukhara State University, Tashkent, Uzbekistan; Kuldoshev Khakim, Tashkent University of Information Technologies named after Muhammad Al-Khwarizmi Tashkent, Uzbekistan.
- 6. Development of the automatic control system of the process of enrichment of technogenic waste**
by Yusupbekov Nodirbek, Yunusov Bakhodir, Yunusov Ismat, Tashkent State Technical University, Tashkent, Uzbekistan.
- 7. Analysis of algebraic properties of transformation of O'zDSt 1105:2009 algorithm**
by Abdurakhimov Bakhtiyor, National University of Uzbekistan Tashkent, Uzbekistan; Khudoykulov Zarif, Allanov Orif, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan, Boykuziev Ilkhom Mardanakulovich, Termez state university, Termez, Uzbekistan.
- 8. Numerical solution to the equation of transfer and diffusion of harmful substances distribution in atmosphere**
by Sharipov Daler, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi Tashkent, Uzbekistan; Khikmatullaev Sanjar, Islomov Utkir, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 9. Probabilistic Approach for System Identification using Machine Learning**
by Abdufattokhov Shokhjakhon, Behzod Muhiddinov, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

- 10. Mathematical modeling of static characteristics of electromagnetic current converter to detect current asymmetry of the traction power supply system**
by Safarov Abdurauf, Sattarov Khurshid, Jumaboyev Sarvar, Tashkent institute of railwayengineering, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 11. Biomedical signals interpolation spline models**
by Zayniddinov Xakimjon, Azimov Bunyod, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 12. Development of a hydrogeological simulation model of geofiltration processes in regional aquifers of fergana valley**
by Djumanov J.X., Ishankhadjaev O.A., Egamberdiev X.S., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Begimqulov D.Q., Jumanov J.J., Tashkent State Technical University named after Islam Karimov, Tashkent, Uzbekistan.
- 13. Development of role model for computer system security**
by Durdona Irgasheva, Sanobar Rustamova, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 14. Information model of interaction of power plants in a distributed network**
by Anarbayev Anvar, Zakhidov Roman, Berdishev Abdurakhim, Rajabov Abdurakhmon, Sattarov Khurshid, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; Sattarov Khurshid, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 15. About of One Methods Synthesis the Structural Protected Computer Network**
by Ganiev Salim, Irgasheva Durdona, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 16. Solution of the multi-criterial routing problem in telecommunication networks**
by Primova Holida, Yalgashev Olimjon, Tashkent university of information technologies named after Muhammad al-Khwarazmi, Samarkand, Uzbekistan; Lola Safarova, Samarkand institute of veterenary medicine, Samarkand, Uzbekistan.
- 17. Numerical Modeling of Atmospheric Pollutants Dispersion Taking Into Account Particles Settling Velocity**
by Muradov Farrukh, Akhmedov Dilshod, Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 18. Maximitazion of shareholders wealth as a primary goal of a firm**
by Sultonova Hilola, Nigmatova Hilola, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 19. Efficient Portfolios Computed via Moment-Based Bounding-approximations: Part I – EB**
by Dokov Steftcho, School of Computer and Information Engineering INHA University in Tashkent, Tashkent, Uzbekistan; Popova Ivilina, Department of Finance & Economics McCoy College of Business, Texas State University San Marcos, USA; David P.Morton, Department of Industrial Engineering and Management Sciences Northwestern University, Evanston, USA.

SESSION 3

BIG DATA, E- AND M- COMMERCE, SIMULATION, MODELING, ANALYSIS AND PERFORMANCE EVALUATION, NETWORK MANAGEMENT, GAME THEORY AND ITS APPLICATIONS

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

12:30-14:00 Lunch

15:00-15:20 Coffee Break

- 1. Neural identification of a dynamic model of a technological process**
by Yusupbekov N.R., Gulyamov Sh.M., Tashkent State Technical University, Tashkent, Uzbekistan; Doshchanova M.Yu., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 2. Communication and information technology is a way of changing education**
by Ibragimova Shahnoza, Saidvalieva Dilafruz, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 3. Faster RCNN Detection Based OpenCV CSRT Tracker Using Drone Data**
by Farhodov Xurshedjon, Ki-Ryong Kwon, Convergence and Application Engineering, Pukyong National University; Kyung Won Kang, Suk-Hwan Lee, Tongmyong University; Oh-Heum Kwon, Donggeui University, Busan, South Korea.
- 4. Research of magnetic circuits magnetoelastic sensors efforts with the method for creating equivalent circuits**
by Amirov Sulton, Jurayeva Kamila, Tashkent institute of railway engineering, Tashkent, Uzbekistan.
- 5. Support systems for monetary circulation decision-making**
by Allayarov Fazliddin, Banking and Finance Academy of the Republic of Uzbekistan; Sayibdjan Mirzaev, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 6. Fiber-Based Whispering Gallery Mode Microresonators for Optical Frequency Comb Generation in Telecommunication Range: Experiment and Numerical Simulation**
by Sorokin A.A., Marisova M.P., Andrianov A.V., Anashkina E.A., Lobachevsky State University of Nizhny Novgorod, Nizhny Novgorod, Russia.
- 7. Improving the effectiveness of teaching the course "Data structure and algorithms" based on structuration and integration of the discipline**
by Yusupov F., Shamuratova I., Khudayberganov T., Urgench branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Yusupov D., Urgench State University, Urgench, Uzbekistan.
- 8. Dynamic modeling of vibrating system n-s component parts which of that the mobile machines for fast acting pneumatic actuator with self-damping**
by Turankhulova Dilafruz, Kamilov Asil, Imamov Shavkat, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; Matmurodov Feruz Farhodovich, Pucheon Technical University of South Korea, Tashkent, Uzbekistan.
- 9. Automatic diffusion mixing system for watering in regions with high water sales**
by Gazieva Rano, Aynakulov Sharafidin, Ozodov Ezoz, Nigmatov Azizjon, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan
- 10. Search for new technical solutions when designing color measuring systems**
by Marysheva L.T., Latipova N.X., Isxakova N.P., Khaitov A., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 11. VR as a method and educational tool in the field of higher education of the Republic of Uzbekistan**
by Khaitov Azizbek., Gazieva Vasilakhan, Latipova N.X., Isxakova N.P., Marysheva Larisa, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi,

- 12. A Procedure for Solving a Problem of Classification with Functions for Comparing Multi-Type Features**
by Khamroev Alisher, Narziev Nosir, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Mamieva Dilnoza, Gachon University Seongnam, Incheon, South Korea.
- 13. Creating a Robust ICT Base for the Digital Economy**
by Ismoilova Gulnora, Nabieva Feruza, Khadjieva Nazokat, Muazzam Shaislamova, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 14. Methods of Obtaining Z-solutions of a Multicriterial Problem**
by Muhamediyeva D.T., Niyozmatova N.A., Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 15. Development of Algorithms Accepting Diagnostic Decisions with the use of Neuro-Information Technologies**
by Juraev Z.Sh., Hasanov U.U., Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 16. Algorithm and the Program of Construction of the Fuzzy Logical Model**
by Muhamediyeva D.T., Egamberdiyev N.A., Scientific and Innovation Center of ICT Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 17. Digital control model of technological process of the yellow phosphorus sublimation**
by Imangaliyev Shnar I., Kotoyants Karine V., Eurasian National University after L.N.Gumilyov Associate Professor Nur-Sultan, Kazakhstan; Koksegen Zhamal K, Lyceum № 38 in Almaty Deputy Director, Almaty, Kazakhstan.

SESSION 4

IOT, APPLICATION OF INFORMATION AND COMMUNICATIONS TECHNOLOGIES,
NOVEL FIBERS AND FIBER-BASED DEVICES, INTERNET APPLICATION, OPTICAL
NETWORKS AND TRANSMISSION SYSTEMS

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

12:30-14:00 Lunch

15:00-15:20 Coffee Break

- 1. The role of ICT and the problems of organizing Distance education in Uzbekistan.**
by Bobokhujaev Sh.I., Gubkin Russian State University of Oil and Gas (National Research University) in Tashkent, Uzbekistan.
- 2. Implementation of a mathematical model of a hexacopter control system**
by Daler Sharipov, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Tazhiev Zhanibek, Military Institute of Information-Communication Technologies and Communications; Zafar Abdullaev, Otabek Khafizov, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers Tashkent, Uzbekistan.
- 3. Change of hydrological regime of foothill small rivers of Uzbekistan**
by Gapparov Furkat, Qodirov Sobir, Gaffarova Mushtariy, Mansurov Safar, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 4. The importance of mobile applications in the use of standard water measurements**
by Fatkhulloev Alisher, Gafarova Aziza, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; Hamraqulov Jasur, Russia state Hydrometeorological university RSHU St. Petersburg city, Russia.
- 5. A new way to distribute secret encryption keys**
by Ahmedova Oydin, State Unitary Enterprise Unicon.uz Tashkent, Uzbekistan; Mardiyev Ulugbek, Karimov Abduqodir, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 6. Simulation modeling, analysis and performance assessment**
by Durmanov Akmal, Li Marina, Otabek Khafizov, Maksumkhanova Azizahon, Kilicheva Feruza, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; Rozikov Jahongir, Tashkent State Agrarian University, Tashkent, Uzbekistan.
- 7. The solution to the problem of synthesis of control of multidimensional objects**
by Beisenbi M., Kaliyeva S. Eurasian National University, Astana, Kazakhstan.
- 8. A Method of Efficient OTP Generation Using Pseudorandom Number Generators**
by Karimov Madjit, The State Testing Center at Cabinet of Ministers of the Republic of Uzbekistan Tashkent, Uzbekistan; Khudoykulov Zarif, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Arziyeva Jamila Karakalpak State University.
- 9. Development of creativity of learners in the courses of advanced training and and retraining of pedagogical staff in the process of studying the course “Innovative educational technology**
by Pozilova Shakhnoza, Tashkent State Pedagogical University, Tashkent, Uzbekistan.
- 10. New aspects of the behavior of the photovoltaic effect in series-connected structures**
by Aripov Khayrulla, Aripova Umida, Toshmatov Shunqorjon, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 11. A Study on Life Cycle Cost on Railway Switches and Crossings**
by Lapasov Furkat, Jongwoo LEE, Kyuhyoung Choi, Seoul National University of Science and Technology, Seoul, Korea.

- 12. Competence of the Manager on Improving the Efficiency of the Educational Process**
by Ismailova Zuxra, Durdona Mustafayeva, Tashkent Institute of Engineers of Irrigation and Agricultural Mechanization of organization, Tashkent, Uzbekistan;
- 13. Method of constructing packet filtering rules**
by Karimov Madjid, Gulomov Sherzod, Yusupov Bokhodir, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 14. Mathematical model and numerical algorithm to study the process of aerosol particles distribution in the atmosphere**
by Ravshanov Normakhmat, Abdullaev Zafar, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; Tursun Shafiyev, Bukhara State University, Bukhara, Uzbekistan.
- 15. Development of media competency of students of pedagogical universities in the process of studying the course “Computer sciences and information technologies”**
by Bobojonov Salokhiddin, Tashkent State Pedagogical University, Tashkent, Uzbekistan.
- 16. Modeling dynamic operation of mechanisms in Autodesk Inventor Professional 11**
by Abdullaev Zafar, Nasritdinova Umida, Khamraeva Shakhnoza, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 17. Effectiveness of virtual simulation of three-dimensional objects in the development of culture and professional skills of the audience of the project**
by Abdullaev Zafar, Nasritdinova Umida, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.
- 18. Infographics Application for Visualization of E-Sports Gaming Activity**
by Nataliya Spiricheva, Sergey Akulich, Ural Federal University, Ekaterinburg, Ural, Russian Federation.
- 19. Evaluation of erosion and accumulative process with using Geoinformation systems in water resource management**
by Dilbar Abduraimova, Dinislom Atakulov, Zaytuna Ibragimova, Tursunoy Apakhodjaeva, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan.

SESSION 5

HEALTH SERVICE DEVELOPMENT AND MANAGEMENT, CYBER SECURITY, BUSINESS, FINANCE AND ECONOMY, GOVERNANCE AND GOVERNMENT POLICY, EDUCATION, HUMANITIES, SOCIAL SCIENCES, MEDICINE AND HEALTH CARE AND OTHERS

Time: 10:00 – 18:00

TUIT Auditory

11:00-11:20 Coffee Break

11:50-14:00 Lunch

15:00-15:20 Coffee Break

- 1. Model and Algorithms for Distribution of Information Flows in Data Transmission Networks**
by Matqurbonov D.M., Nushtayeva O.X., Tojiyeva F.Q., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 2. Development of digital economy in Uzbekistan and problems of implementation of ICT in enterprises**
by Bobokhujaev Sh.I., Gubkin Russian State University of Oil and Gas (National Research University) in Tashkent, Tashkent, Uzbekistan; Otakuziyeva Z.M., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan
- 3. Analysis of Integrated Neural Network Attack Detection System and User Behavior Models**
by Bekmuratov Tulkun, Scientific innovation centre on information technologies under Tashkent University of Information Technologies named after Muhammad al-Khwarizmi; Botirov Fayzullajon, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 4. Innovative approach of distance learning in the form of online courses**
by Abdullaev Zafar, Xikmatullaev Sanjar, Tashkent Institute of Irrigation and Agricultural Mechanization Engineers, Tashkent, Uzbekistan; Kendjaeva Dildora, Tashkent state dental institute, Tashkent, Uzbekistan.
- 5. Efficiency Estimation Of Image Resizing Based On Interpolating Transformations**
by Puziy Anastasia, Gavrilov Igor, Nosirov Khabibullo, Akhmedova Anora, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan
- 6. Handling of Transmission of Numeral Signals of Telecommunication by Means of Programmed Logical Integrated Circuits**
by Masharipov Otoboy, Urgench branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Juraev Tuychi, Karshi State University, Karshi, Uzbekistan.
- 7. Sustainable Service-Oriented Architecture for Smart City Development**
by Kuryazov Dilshodbek, Khujamuratov Bekmurod, Sherkhanov Khursand, Urgench branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 8. Logical method for constructing the optimal corrector of fuzzy heuristic algorithms**
by Kabulov Anvar, Uzbekistan National University named after Mirzo Ulugbek, Tashkent, Uzbekistan; Urunbayev Erkin, Samarkand State University, Samarkand city, Uzbekistan; Ashurov Aziz, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 9. Hardware-software complex detect smoke and fire from video images**
by Khamdamov Rustam, Rakhmanov Khoshim, Sakiyev Timur, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

- 10. Towards Integrated IoT-Languages**
by Artikov Muzaffar, Urgench branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan; Meier Johannes, Andreas Winter Software Engineering Group, University of Oldenburg, Oldenburg, Germany.
- 11. Measurement of electromagnetic radiation levels from mobile radiotelephones**
by Davronbekov D.A., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi Tashkent, Uzbekistan; Abdimuratov Z.S., Manbetova Z.D., Electrical systems and networks. Almaty University of Power Engineering and Telecommunications, Almaty, Kazakhstan.
- 12. Solving the vibration of magnetic elastic plates with sophisticated form**
by Nuraliev F.M., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi Tashkent, Uzbekistan; Aytmuratov B.Sh., Artikbayev M.A., Nukus branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Nukus, Uzbekistan.
- 13. Modeling of geophysical signals based on the second- order local interpolation splay-function**
by Zayniddinov Xakimjon, Kuchkarov Muslimjon, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 14. About organization of mobile communications in long car tunnels**
by Shakhobiddinov A.Sh., Shamsiev A.S., Narzullaev I., Shoniyozov G., Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.
- 15. Analytical and numerical reconstruction of internal structure of the objects in a family of straight-line segments**
by Uteuliev N.U., Djaykov G.M., Yadgarov Sh.A., Nukus branch of Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Nukus, Uzbekistan.
- 16. Reliability of Open Optical Transmission Systems in the Backbone Core Cellular Networks of Cellular Communication**
by Ibraimov R.R., Sultonova M.O., Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 17. Display Integrated Mobile Phone Prototype For Blind People**
by Nosirov Khabibullo, Begmatov Shohruh, Arabboev Mukhriddin, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 18. Development of Smart City Model: Smart Bus System**
by Matyakubov Marks, Rustamova Onakhon, Urgench branch of Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Urgench, Uzbekistan.
- 19. The data structure and information model for the information system of monitoring the educational process in the medical field**
by Elov Jamshid, Khamdamov Utkir, Makhamov Orif, Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.
- 20. Research and Modelling Adaptive Management of Hybrid Power Supply Systems for Object Telecommunications based on IoT**
by Khujamatov Kh.E., Khasanov D.T., Reypnazarov E.N., Tashkent University of Information Technologies named after Muhammad al-Khwarazmi, Tashkent, Uzbekistan.

END OF CONFERENCE

❖ **Closing Ceremony**

❖ **Remarks and awards**

❖ **Discussion about next year 2020 conference**

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