

# **PROGRAM**

**OF THE INTERNATIONAL SCIENTIFIC  
CONFERENCE**

**SYSTEMS AND TECHNOLOGIES  
OF DIGITAL HEALTHCARE**

**STDH - 2023**

**Republic of Uzbekistan, Tashkent**

**OCTOBER 4 – 7, 2023**

## **CONFERENCE ORGANIZERS**

**Tashkent State Technical University named after Islam Karimov**  
**St. Petersburg Electrotechnical University "LETI"**  
**Russian North-Western Section of the IEEE**

## **THE CONFERENCE CHAIRMEN**

Professor Sadriddin M. Turabdzhanov, Rector of Tashkent State Technical University named after Islam Karimov, (Uzbekistan)

Professor Viktor N. Sheludko, Rector of St. Petersburg Electrotechnical University "LETI", (Russia)

## **CO-CHAIRS OF THE CONFERENCE**

Professor Talat M. Magrupov, Tashkent State Technical University named after Islam Karimov, (Uzbekistan)

Professor Zafar M. Yuldashev, St. Petersburg Electrotechnical University "LETI", (Russia)

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Professor Sergey V. Gubkin, Institute of Physiology of the National Academy of the Republic of Belarus (Belarus)

Associate Professor Shabotir Ibragimov, Tashkent State Technical University named after Islam Karimov, (Uzbekistan)

Associate Professor Dilnoza Elmuratova, Tashkent State Technical University named after Islam Karimov, (Uzbekistan)

Associate Professor Nargiza Nurillayeva, Tashkent Medical Academy, (Uzbekistan)

Associate Professor Dilfuza Yarmukhametova, Tashkent Medical Academy (Uzbekistan)

Associate Professor Seit Abdikhalikov, Tashkent State Technical University named after Islam Karimov, (Uzbekistan)

Associate Professor Sergey O. Shaposhnikov, St. Petersburg Electrotechnical University "LETI", (Russia)

Associate Professor Yulia O. Bobrova, St. Petersburg Electrotechnical University "LETI", (Russia)

Associate Professor Evgenia A. Semenova, St. Petersburg Electrotechnical University "LETI", (Russia)

**CONFERENCE VENUE**

**Tashkent State Technical University named after Islam Karimov,  
Tashkent, Universitetskaya str., 2**

**REGISTRATION OF CONFERENCE PARTICIPANTS**

**October 4, 2023,  
TSTU, Uzbek-Japanese Youth Innovation Center,  
Conference hall**

**Registration time 10.00 – 11.00 h.**

**Connecting to the Zoom Conference**

<https://us06web.zoom.us/j/88424094402?pwd=V3mvmBRQmQK53rbaaYsvbCBxZqR>

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Conference ID: 884 2409 4402

Access code: 012345

**MEETINGS ON OCTOBER 4, 2023**  
**PLENARY SESSION**  
**TSTU, Uzbek-Japanese Youth Innovation Center, Conference Hall**

**Connecting to the Zoom Conference**

<https://us06web.zoom.us/j/88424094402?pwd=V3mvmBRQmQK53rbaaYsvbCBxZqRZra.1>

Conference ID: 884 2409 4402  
Access code: 012345

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|---------------|--|
| 11.00 – 11.10 | Professor S.M. Turabdzhanov, Welcome speech by the Rector of the Islam Karimov State Technical University  |
| 11.10 – 11.15 | Professor Sheludko V.N., Welcome speech by the rector of SPbSETU "LETI"  |
| 11.15 – 11.45 | Prof. G.N. Ponomarenko Digital Transformation of Prosthetics and Orthotics   |
| 11.45 – 12.10 | Prof. N.M. Nurillayeva Heart rate variability: technical and prognostic aspects  |
| 12.10 – 12.25 | Coffee break   |
| 12.25 – 12.45 | Prof. S.I. Shchokin Scientific Foundations of New Information Technologies of Electromagnetic Therapy, Noninvasive Cardiac Monitoring, Bionic Management |
| 12.45 – 13.05 | Prof. A.V .Ivashchenko Adaptation of Virtual Reality Interfaces in Applications of Psychodiagnostics and Medical Rehabilitation                          |
| 13.05 – 13.25 | Prof. N.N. Potrakhov Digital Medicine technologies. Research results of St. Petersburg Electrotechnical University                                       |
| 13.25 – 13.45 | Morozov N.A. Improvement the functionality of endoscopes for anatomical research.  |
| 13.45 – 14.00 | Prof. S.O. Shaposhnikov Preparation, Organization and Holding of IEEE International conferences  |
| 14.00 – 15.00 | <b>Lunch break</b>   |

## SESSION № 1

### Methods of processing and analysis of biomedical data, signals and images

TSTU, Uzbek-Japanese Youth Innovation Center, Conference Hall

**Chairpersons:**        **Corresponding member of the Russian Academy of  
Sciences, Professor G.N. Ponomarenko  
Professor Z.M. Yuldashev**

### Connecting to the Zoom Conference

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Conference ID: 884 2409 4402

Access code: 012345

- 15.00 – 15.15    Gudkov A.G., Chizhikov S., Leushin V., et al. Processing and analysis of biomedical data, signals and images using a microwave radiothermometric complex in MIC version
- 15.15 – 15.30    Lyakin M., Ilyasova N., Demin N. Identification of the ground-glass opacity on computed tomography images of the lungs based on the analysis of groups of textural features
- 15.30 – 15.45    Zmievskey G.N., Shelkova D.L. Metrological Analysis of the Single-Channel Reflective Photoplethysmograph Operation
- 15.45 – 16.00    Shmatko V., Luzhnov P.V., Alina A., Skvortsov S.P. Development of software and hardware for the acoustic signal processing telemedicine channel
- 16.00 – 16.15    Arakeliian M.A., Luzhnov P.V. Modeling the formation process of non-thermal dielectric barrier discharge plasma for therapy of dermatological diseases
- 16.15 – 16.30    A. Ibrahim, Nazirov R.M. Study for the design of reflective markers for analysis of the spinal state during walking
- 16.30 – 16.45    Rumyantseva A., Volkov A., Smyshlyaeva A., Kosorukov  
Development of hardware-software complex for assessment of electrokinetic properties of buccal epithelium cells during chronic tonsillitis
- 16.45 – 17.00    Alina A., Kolesnikov A., Skvortsov S.P., Luzhnov P.V. Estimating the Efficiency of Adaptive Noise Filtering by the Least Mean Squares Method in relation to phonocardiographic signals

**SESSION № 2**  
**Remote health monitoring systems**  
**TSTU, building No. 2, auditorium No. 415**

**Chairpersons:        Professor Shchukin S.I.**  
**Associate Professor Bobrova Yu.O.**

**Connecting to the Zoom Conference**

<https://us06web.zoom.us/j/83201440839?pwd=bF88kmSYa6OCe48PLDNbY95XyaWjsT.1>

Conference ID: 832 0144 0839

Access code: 357332

- 15.00 – 15.15    Leushin V., Agasieva S.V., Porokhov I., Gudkov A.G. Interference-Proof Spiral Applicator Antenna for Brain Radiometry
- 15.15 – 15.30    Zheleznykh E.A., Emelianov A.V., Kozhevnikova M.V., Zektser V.Y., Kamalova A.E. et al. ‘Last mile’ problem in remote patient monitoring at home: the use of instant messaging applications
- 15.30 – 15.40    Alpatov A.V., Ashapkina M.S., Melnik O.V. Chatbot for Remote Physical Knee Rehabilitation with Exercise Monitoring based on Machine Learning
- 15.40 – 15.50    Melnik O.V., Nikiforov M.V., Novikov S.V. System for non-contact Diagnostics of Tremor
- 15.50 – 16.00    Bodin O.N., Bezborodova O.E., Mitroshin A.N., et al. Optimization of Medical Care Provision in Intelligent Medical Information System
- 16.10 – 16.20    Kurochkin A.Y. Mobile system for assessing functional disorders of the foot
- 16.20 – 16.30    Bogdanova A. S., Bobrova Yu.O. The concept of a device for lung monitoring
- 16.40 – 16.50    Klypin D. N. Development of a emergency rescue device for patients with ventricular arrhythmias
- 16.50 – 17.00    Shalobyta H.N., Korneeva I.P., Gushchin V.M. Development of a System for Remote Monitoring of Patients with Chronic Diseases and an Algorithm for Assessing Their Current State of Health
- 17.00 – 17.10    Housam Hasan Bou Issa, Ibrahim Anagheem, Abdullayev I. A moving platform for acquiring images of the spine during walking

**SESSION OF SECTION № 3**  
**Medical decision support systems.**  
**Intelligent systems in healthcare.**

**TSTU, building № 2, room № 416**

**Chairpersons: Professor Melnik O.V.**  
**Associate professor Sablina V.A.**

**Connecting to the Zoom Conference**

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Conference ID: 872 3197 2766

Access code: 588020

- 15.00 – 15.15 Artemenko M., Privalova I., Fedyanin V., Shutkin A., Kvashnina G. Synthesis of decisive rules for SMART expert system of predictive adaptation to sport by digital technologies
- 15.15 – 15.30 Tychkov A.Yu., Chernyshov D.S., Ivanov A.D., Alimuradov A.K., Churakov P.P., Yuldashev Z.M. Development of a Medical Decision Support System for the Assessment of Anxiety-Phobic Disorders Using Virtual Reality Technology.
- 15.30 – 15.40 Abdullayev N.T., Uzbekzade S.N., Musevi U.N. Synthesis of fuzzy decision rules classification for medical intelligent decision support systems in electrocardiography
- 15.40 – 15.50 Magrupov T.M., Kuchkarova N.A. Method for development a decision tree for diagnosing epilepsy in children
- 15.50 – 16.00 Filist S., Kiselev A., Kuzmin A., Korenevskiy N., Butusov A. A hybrid risk classifier for community-acquired pneumonia with descriptors derived from the analysis of the synchrony of systemic rhythms and the electrical activity of the respiratory muscles
- 16.00 – 16.10 Bolsunov K.N., Gapanenok A.E. Bioengineering system for early diagnosis of multiple sclerosis
- 16.10 – 16.20 Kolpakov A.V., Sokolova D.Yu., Moshkova A.A., Abramova A.Ya., Zolotnitsky I.V., Kopaneva N., O., et al. Decision support system for oncoscreening of the oral mucosa and red border of the lips using diffuse reflectance spectroscopy of the visible and near-IR range in vivo



- 16.20 – 16.30 Petrenko T., Petrenko A., Kublanov V. Polyfactorial Electrical Stimulation of Neck Nerve Structures for Human Cognitive Functions Restoration
- 16.30 – 16.40 Petrenko A., Kublanov V. Biotechnical system for assessment and correction of the human psychophysiological state using telemedicine technologies
- 16.40 – 16.50 Otchenashenko A.I., Nikitaev V.G., Pronichev A.N., Sergeev V.Y. Semantic segmentation of skin neoplasms: the way to an accurate diagnosis
- 16.50 – 17.00 Shevchenko Yu.A., Semenova E.A., Tashev B.J. Monitoring system for patients after cholecystectomy  
Loginova D.D., Semenova E.A., Sigua B.V., Klejmyuk
- 17.00 – 17.10 S.V. Development of the clinical decision support system for the analysis of the kidney CT scans.
- 17.10 – 17.20 Abalyaev A., Grunskaya L. Forecast accuracy analysis of the dangerous technogenic situations occurrence in view of the impact of geo- and heliophysical factors on a human body using recurrent neural networks

**SESSION № 4**  
**Digital healthcare technologies**

**TSTU, Faculty of Engineering Technologies.**  
**Department of Biomedical Engineering, room № 404**

**Chairpersons: Professor Frolov S.V.**  
**Associate Professor Semenova E.A.**

**Connecting to the Zoom Conference**

<https://us06web.zoom.us/j/83186728504?pwd=7dSASStv6PQjpD4Y26uGXRDRLPJuOg>  
[p.1](#)

Conference ID: 831 8672 8504

Access code: 962242

- 15.00 – 15.15 Frolov S.V., Korobov A.A., Savinova K.S., Potlov A.Yu., Frolova T.A. Development of a full-height hydrodynamic phantom of the newborn's body and experimental studies of heat and mass transfer in neonatal incubators
- 15.15 – 15.30 Ponomarenko G.N., Smirnova L.M., Shcherbina K.K. Digital Technology of Lower Limbs Protheses Manufacturing
- 15.30 – 15.45 Leonova M., Penzin O., Subbotin S., Karpov O. Specifics of digital solutions acceleration in a medical organization
- 15.45 – 16.00 Khan S.G., Zhussupbekov S.S., Fedorenko I.A. Automated Program for Estimation of Uncertainty in Measurement
- 16.00 – 16.15 Magrupova M.T., Magrupov T.M., Matyakubova P.M. Optimization methods for the maintenance of medical equipment
- 16.15 – 16.30 Kuchkarova N. A, Ixrarova S. I., Ibragimova M.N X-ray phase analysis of aluminum plates by pulsed laser action for the purpose of manufacturing body parts of medical equipment.
- 16.30 – 16.45 Abdumalikova F., Nurillayeva N., Gaibnazarov S., Rakhimberganova Z. The use of digital technologies as an electronic platform for assessing the risk index of progression of ischemic heart disease

# MEETINGS OF THE CONFERENCE SECTIONS ON OCTOBER 5, 2023

## SESSION № 1

### Methods of processing and analysis of biomedical data, signals and images

TSTU, Uzbek-Japanese Youth Innovation Center, Conference Hall

Chairpersons: Professor Yuldashev Z.M.

Associate Professor Semenova E.A.

### Connecting to the Zoom Conference

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Conference ID: 884 2409 4402

Access code: 012345

- 10.00 – 10.15 Stakhova A., Skvortsov S.P. Study of ultrasound cavitation effectiveness in ultrasound chemotherapy
- 10.15 – 10.30 Talatov.T., Nurillayeva N.M., Yarmukhamedova D.Z., Zubaydullayeva M.T. Assessment of heart rate variability in patients who have suffered a myocardial infarction
- 10.30 – 10.45 Obukhov A.D., Nazarova O.V., Zajceva D.V. Methods of processing and analyzing EEG data based on machine learning to determine phobic disorders
- 10.45 – 11.00 Bodin O.N., Bodin N.M., Serzhantova N.A. et al. Construction of a Cardiac Electrical Activity Digital Twin Based on Multiple Lead Electrocardiogram Recording
- 11.00 – 11.15 Bodin O.N., Rakhmatullof F.K., Serzhantova N.A. et al. Peculiarities of excitation wave propagation in myocardium with fibrosis based on Aliev-Panfilov model
- 11.15 – 11.30 Smirnova A., Belsheva M., Al-harosh Mugeb. Applicability assessment of electrical impedance plethysmography for vascular diseases diagnosis
- 11.45 – 12.00 Smirnova A., Al-harosh Mugeb Kudashov I. Visualization Bio-Impedance-Based Module For Automated Venepuncture Robotic Device
- 12.00 – 12.15 Shcherbachev A., Alexandrov A., Kudashov I. Development of a portable respiratory rate monitoring system for sleep apnea

- 12.15 – 12.30 Magrupov T.M., Nurillaeva N.M., Yarmukhamedova D.Z., Zubaidullaeva M.T., Turabdjyanovna M.Z., Talatov Y.T., Mirametov A.B. Study of the relationship between heart rate variability and the incidence of various types of arrhythmia in patients with hypertension
- 12.45 – 13.00 Chibizov P., Petrov M., Kapravchuk V., Mazeina V., Briko A. Multi-channel Control System Using Force Myography
- 13.15. – 13.30 Ahmad Hammoud, Kapravchuk V., Briko A., Tihomirov A., Latypova A., Shchukin S.I. Comparative Analysis of Breathing Curve Estimation from Transthoracic Bioimpedance and Electrocardiography
- 13.30 – 13.45 Ahmad Hammoud, Tikhomirov A., Briko A., Latypova A. Assessing the Feasibility of Cuffless Pulse Wave Velocity Measurement: A Preliminary Study Using Bioimpedance and Sphygmomanometer
- 13.45 – 14.00 Savchenko A.L., Bodyak D.A., Sytnik AA. Anshyts A.A. Design of implants based on 3D modeling of skeletal bones
- 15.00 – 17.00 **Visit to the University departments**

## **SESSION № 5**

### **Innovation management and quality assurance in healthcare**

**TSTU, building № 2, hall № 415**

**Chairpersons: Professor Melnik O.V.  
Associate professor Sablina V.A.**

#### **Connecting to the Zoom Conference**

<https://us06web.zoom.us/j/87611397751?pwd=2FzOipdO5jb58Klte8cjCvxqlhX33n.1>

Conference ID: 876 1139 7751

Access code: 680461

- 10.00 – 10.15 Otstavnov S.S., Aksiutin A., Naimzada D.M., Lemeshko V.,  
Mikhailova A. Project portfolio management tools in the field of  
medical industry
- 10.15 – 10.30 Davydova O., Otstavnov N.S., Sadovnik D. Investigation of problems  
and barriers of innovations in healthcare by different income countries
- 10.30 – 10.45 Naimzada D.M., Otstavnov N.S., Iziurova E.V. A Scoping Review of  
Main Value-Based Healthcare Innovation Valuing Methodologies
- 10.45 – 11.00 Otstavnov N.S., Morozov M., Lazarev A., Shikhaleev P. Medical  
start-ups: management tools for efficient project leading
- 11.00 – 11.15 Morozov M., Aksiutin A., Shikhaleev P., Otstavnov S.S.  
Fundamentals of creating an innovative product and entrepreneurial  
activity in healthcare
- 12.00 – 14.00 **Visit to the University departments**

## SECTION № 6

### Educational technologies in the field of biomedical engineering

TSTU, building № 2, hall № 416

**Chairpersons:**      **Professor Magrupov T.M.**  
                             **Associate professor Konoplev G.A**

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<https://us06web.zoom.us/j/85740018245?pwd=OuXHRsaH70IJFioKXumten62b5ExAy.1>

Conference ID: 857 4001 8245

Access code: 643340

- 10.00 – 10.15    Magrupov T.M., Elmurotova D.B. Development prospects direction of education Biomedical Engineering in Uzbekistan
- 10.15 – 10.30    Bazarbayev M.I., Ermetov E.Ya., Sayfullayeva D.I., Elmurotova D.B. Development of innovative computer and information platform for designing the activity of a specialist in a medical university
- 10.30 – 10.45    Mullojonov I., Narziqulova Q.I., Maxsudov V.G., Ermetov E.Ya., Elmurotova D.B. Study of the appearing molar volume of electrolyte solutions and its application in health-biological processes
- 11.00 – 13.00                                **Visit to the University departments**

# MEETINGS OF THE CONFERENCE SECTIONS ON OCTOBER 6, 2023

## SESSION № 1

### Methods of processing and analysis of biomedical data, signals and images

TSTU, Uzbek-Japanese Youth Innovation Center, Conference Hall

Chairpersons: Professor T.M. Magrupov.  
Professor Yuldashev Z.M.

#### Connecting to the Zoom Conference

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Conference ID: 884 2409 4402  
Access code: 012345

- 10.00 – 10.15 Konoplev G.A., Sünter A., Kuznetsov A., Korsakov V. et al. Protein Loss Assessment in Patients on Continuous Ambulatory Peritoneal Dialysis with Optical Chromatographic Sensor
- 10.15 – 10.30 Manilo L.A., Kholmatov D., Nemirko A.P. Automatic analysis of heart failure by statistical and nonlinear measures of heart rate variability
- 10.30 – 10.45 Palogiannidis D. Two-dimensional visualization of spatial sounds to assess object localization using a navigation aiding device
- 10.45 – 11.00 Melnik O.V., Nikiforov M.B., Sablina V.A., Chernenko A.D. A Comparative Analysis of the Micro-Facial Movement Detection Accuracy Depending on the Fuzzy Spatio-Temporal Feature Descriptor Selection
- 11.00 – 11.15 Moshkova A., Bukin V., Samorodov A.V. The Error Evaluation of the Amplitude of Finger Tapping and Pronation/Supination of the Palm Exercises Recorded by Leap Motion
- 11.15 – 11.30 Belsheva M., Safonova L., Pika T. et al. Personalized adjustment of near infrared spectroscopy studies using fMRI data for research in neuroscience
- 11.45 – 12.00 Nurillaeva N., Yarmukhamedova D, Talatov Y, Gaibnazarov S. Differential Diagnosis Of Dangerous Heart Rhythm Disorders On Short Time Intervals

- 12.00 – 12.15 Kramm M.N., Thi Lan Nhi Truong, Bodin O.N, Bodin A.Y. et al. Issues of Electrocardiosignal Processing for the Visualization of Electrical Potential Maps on the Epicardium in a Multielectrode Electrocardiological Screening System
- 12.15 – 12.30 Petrov M., Chibizov P. Sintsov M., Balashov M., Kapravchuk V., Briko A,N. Multichannel Surface Electromyography System for Prosthesis Control Using RNN Classifier
- 12.30 –12.45 Terentyeva a.D., Zmievskey G.N. Diagnosis of Coronary Heart Disease According to the Condition of the Bulbar Conjunctiva of the Eye
- 12.45 – 13.00 Khidoyatova M., Gaibnazarov S., Yusupova N. Potential of using cardiac imaging methods in patients with COVID-19 in intensive care units
- 13.10. – 13.20 Tarasov S.P., Chernov N.N, Varenikova A.Yu. Improving the efficiency and safety of intrauterine ultrasound examination
- 13.20 – 13.30 Zaichenko K.V., Gurevich B.S. Features of Bioelectric Signals Wavelet Processing by Means of Time Integration Acousto-Optic Processors
- 13.30 – 13.40 Zaichenko K.V., Gurevich B.S., Galagudza M. et al. Application of multispectral imaging for early diagnosis of malignant skin neoplasms
- 13.40 – 13.50 Zaichenko K.V., Gurevich B.S., Sviatkina V. Optimization of the Relationship Between Spectral and Spatial Kinds of Information in Hybride Endoscopes
- 13.50 – 14.00 Zaichenko K.V., Afanasenko A.A., Kordyukova A. et al. Cardiocycle Scaling for Ultra-high Resolution Electrocardiography
- 14.00 – 15.00 **Summing up the results of the conference**

**ROUND TABLE MEETING OF THE CONFERENCE ON OCTOBER 7, 2023  
TSTU, Uzbek-Japanese Youth Innovation Center, Conference Hall**

- 10.00 – 11.30 Discussion of issues of scientific cooperation of universities in the field of systems development of systems and technologies of digital medicine.  
Moderator Professor S.I. Shchukin.
- 12.00 – 14.00 International cooperation of universities in the field of education.  
The state educational standard of the 4th generation.  
Network educational programs. The program of two diplomas.  
Moderator Professor Yuldashev Z.M.