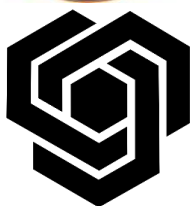


**AUTOMATION, ELECTRONICS,  
INFORMATION - MEASURING TECHNOLOGIES:  
EDUCATION, SCIENCE, PRACTICE**



**TAL  
TECH**

## **National Technical University «Kharkiv polytechnic institute»**

in cooperation with  
Technical University of Sofia  
Tallinn University of Technology  
Magdeburg University

**DEAR COLLEAGUES!**

**We are pleased to invite you to participate in**

**V International Scientific - Technical Conference  
«AUTOMATION, ELECTRONICS, INFORMATION -  
MEASURING TECHNOLOGIES: EDUCATION,  
SCIENCE, PRACTICE»**

**28-29 November 2024  
Kharkiv, Ukraine**

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**We are pleased to invite you to participate in the**

**V International Scientific - Technical Conference  
«AUTOMATION, ELECTRONICS, INFORMATION - MEASURING  
TECHNOLOGIES: EDUCATION, SCIENCE, PRACTICE»**

**Conference will be held on the 28 – 29 November 2024 in the  
National Technical University «Kharkiv polytechnic institute»  
(on-line).**

**Participation is free (without registration fee)!**

Speakers will be issued a certificate of participation (0,3 ECTS)

#### **PUBLICATION**

The conference materials will be published in a collection of abstracts  
and placed in a digital repository.

#### **IMPORTANT DATES**

11/15/2024 – deadline of receiving report materials

11/28/2024 – plenary meeting

11/29/2024 – sections' work

#### **REGISTRATION RULES**

Detailed information on the rules for drawing theses and the template  
are available at the link:

[registration rules](#)

#### **PARTICIPANT REGISTRATION**

To participate in the conference, participants must register in the  
automated system for submitting scientific articles using the link:

[registration form](#)

## **CONFERENCE TOPICS**

### **Section 1. Automation and control in technical systems**

**(the head of the section is Ph.D., Prof. A.O. Zuev; the secretary of the section is Ph.D., Assoc. Prof. V.A. Krylova, e-mail: viktorii.krylova@khpi.edu.ua)**

- intelligent decision support systems and robotics;
- mathematical models of control objects with distributed parameters;
- simulation of dynamic control systems;
- information coding and compression algorithms;
- digital processing of signals and images;
- systems of fuzzy logic and smart game technology.

### **Section 2. Medical and biological devices and systems**

**(head of the section - Doctor of Science, Prof. Kipenskyi A.V.; secretary of the section - Ph.D., Assoc. Prof. V.V. Kulichenko, e-mail: Viacheslav.Kulichenko@khpi.edu.ua )**

- problems of providing treatment and prevention institutions with medical equipment;
- problems of building medical-diagnostic, physiotherapeutic and surgical devices and systems;
- methods and means of diagnosis and measurement of medical and biological parameters;
- telemetry devices and systems for biomedical purposes.

### **Section 3. Control and diagnostic systems and devices**

**(the head of the section is Doctor of Science, Professor G.M. Suchkov; the secretary of the section is Ph.D., Poznyakova M.E., e-mail: poznyakova-me@ukr.net )**

- methods and devices of flaw detection, thickness measurement and determination of physical and mechanical characteristics of materials;
- increasing the accuracy of control and diagnostics.

### **Section 4. Information and measurement technologies and systems**

**(the head of the section is Doctor of Science in Technology, Prof. Gorkunov B.M.; the secretary of the section is Ph.D., Assoc. Prof. Lvov S.G. e-mail: serhii.lvov@khpi.edu.ua)**

- increasing the accuracy of measuring transducers;
- development of methods and devices for solving problems of control, diagnostics, testing and quality of industrial products;
- standardization, certification in scientific research and industry;
- modern approaches in evaluating, ensuring and managing the quality of products, services and personnel.

### **Section 5. Methods of research and modeling in chemical, food, mining and processing technologies**

**(the head of the section is Ph.D., Assoc. Prof. I.O. Lavrova; the secretary of the section is Ph.D., Assoc. Prof. M.V. Ilchenko, e-mail: mariia.ilchenko@khpi.edu.ua)**

- mathematical, computer, simulation and physical modeling of chemical and technological objects;
- automation and management of chemical and technological systems, improvement of control systems;
- integration methods and energy efficiency of chemical-technological processes and systems;
- methods of analysis and research of composition and properties of substances and materials;
- improvement of technological processes and constructions of production equipment.

### **Section 6. Historical, sociocultural and educational aspects of the development of science and technology as factors of civilizational progress (head of the section - Doctor of Science, Prof. O.E. Tverynykova; secretary of the section - Y.V. Motenko, e-mail: motenkoyaroslav@gmail.com)**

- scientific potential of Ukraine: personalities, discoveries and innovations in the historical aspect;
- scientific and scientific-technical schools in the socio-cultural landscape of Ukraine;
- interaction of technologies and social processes;
- technologies and humanitarianism in the conditions of convergent evolution;
- the impact of technologies on the socio-cultural development of Slobozhanshchyna.