AUTOMATION, ELECTRONICS, INFORMATION AND MEASUREMENT TECHNOLOGIES: EDUCATION, SCIENCE, PRACTICE

National Technical University
«Kharkiv polytechnic institute»
in cooperation with
Technical University of Sofia
Tallinn University of Technology
Leipzig University
Université Paris Cité
Modern University for Technology and Information

DEAR COLLEAGUES!

We are pleased to invite you to participate in VI International Scientific - Technical Conference «AUTOMATION, ELECTRONICS, INFORMATION AND MEASUREMENT TECHNOLOGIES: EDUCATION, SCIENCE, PRACTICE»

03-04 December 2026
Kharkiv, Ukraine

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

Conference will be held (online)
on 03-04 December 2026 at the National Technical University "Kharkiv Polytechnic Institute" (NTU "KhPI")

Participation is free (without registration fee)!

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

PUBLICATION

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

IMPORTANT DATES

11/20/2026 – deadline of receiving report materials
12/03/2026 – plenary meeting
12/03-04/2026 – 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 using the link:
registration form

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CONFERENCE TOPICS

Section 1. Intelligent Control Systems, Artificial Intelligence, Robotics, and Digital Technologies in Technical Systems
Section Chair – PhD, Professor Andrii ZUIEV;
Section Secretary – PhD, Associate Professor Viktoriia KRYLOVA, e-mail: Viktoriia.Krylova@khpi.edu.ua

- Machine learning in automation;
- Mechatronics and robotic systems;
- Intelligent decision support systems and robotics;
- Mathematical models of control objects with distributed parameters;
- Modeling of dynamic control systems;
- Information coding and compression algorithms;
- Digital signal and image processing;
- Fuzzy logic systems and smart game technologies;
- Digital technologies in the automation of technological processes.

Section 2. Information and Measurement Technologies
Section Chair – Doctor of Technical Sciences, Professor Borys HORKUNOV;
Section Secretary – PhD, Associate Professor Serhii LVOV, e-mail: Serhii.Lvov@khpi.edu.ua

- Modern information and measurement systems and instruments for product inspection, diagnostics, and quality assessment;
- Improving the accuracy of measurements, inspection, and diagnostics;
- Methods and means of non-destructive testing, flaw detection, and assessment of material properties;
- Metrological support, standardization, conformity assessment, and quality management.

Section 3. Information Technology, Computer Modeling and Telecommunication Systems
Section Chair – Doctor of Technical Sciences, Professor Pavlo PUSTOVOITOV;
Section Secretary – PhD, Associate Professor Mykola SAVCHENKO, e-mail: Mykola.Savchenko@khpi.edu.ua

- Methods and technologies for computer modeling of complex systems and processes, including digital twins;
- Software engineering, information systems, databases and data management technologies;
- Artificial intelligence, machine learning, data mining and data processing;
- Distributed, cloud and edge computing, and Internet of Things technologies;
- Telecommunication networks and systems, wireless, mobile and satellite communications;
- Cybersecurity, information protection, reliability and resilience of information and telecommunication systems.

Section 4. Research Methods and Modeling in Chemical, Food, Extractive, and Processing Technologies
Section Chair – PhD, Associate Professor Inna LAVROVA;
Section Secretary – PhD, Associate Professor Mariia ILCHENKO, e-mail: Mariia.Ilchenko@khpi.edu.ua

- Mathematical, computer, simulation, and physical modeling of chemical engineering processes and systems;
- Automation and control of chemical engineering systems; improvement of control systems;
- Process integration methods and energy efficiency of chemical engineering processes and systems;
- Methods for analyzing and investigating the composition and properties of substances and materials;
- Improvement of technological processes and designs of industrial equipment.

Section 5. Historical, Sociocultural, Educational, and Innovative Aspects of the Development of Science and Technology as Factors of Civilizational Progress
Section Chair – Doctor of Historical Sciences, Professor Olena TVERYTNYKOVA;
Section Secretary – PhD, Associate Professor Yaroslav MOTENKO, e-mail: motenkoyaroslav@gmail.com

- Ukraine's scientific potential: prominent scientists, discoveries, and innovations in historical perspective;
- Scientific and scientific-technical schools in Ukraine's sociocultural landscape;
- Interplay between technologies and social processes;
- Technology and the humanities in the context of convergent evolution;
- Impact of technologies on the sociocultural development of Slobozhanshchyna.