Ministry of Education and Science of Ukraine

Dnipro University of Technology
O. M. Beketov National University of Urban Economy in Kharkiv

Zaporizhzhia Polytechnic National University
PO "Systemic Directions of Research"

PO MDTSVE
Esslingen University of Applied Sciences
University of Koblenz
Cardiff University
Kırklareli University
Universidad Politécnica de Madrid

CALL FOR ABSTRACTS

IV (X) International Scientific and Practical Conference of Higher Education Students and Young Scientists

"Information Technologies: Theory and Practice"

March 24–26, 2027
Dnipro, Ukraine

CONFERENCE ORGANIZING COMMITTEE

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DEAR COLLEAGUES

We invite you to participate in the IV (X) International Scientific and Practical Conference for Higher Education Students and Young Scientists "Information Technologies: Theory and Practice," hosted by Dnipro University of Technology on March 24–26, 2027.

CONFERENCE PURPOSE

The conference brings together young scientists, doctoral students and university students to discuss research findings and advances in computer science and information technology and to exchange experience and innovative ideas. Participants will explore how innovative information systems and technologies can support Ukraine's postwar reconstruction and identify priorities for European integration in line with the National Plan for Open Science. The conference will also consider research by young scientists in information technology and prospects for artificial intelligence, machine learning and intellectual entrepreneurship.

VENUE AND DATES

DNIPRO UNIVERSITY OF TECHNOLOGY
March 24–26, 2027

Online



IMPORTANT DATES

March 1, 2027 – Abstract submission deadline

March 14, 2027 – Deadline for acceptance or rejection notices and distribution of invitations and the conference program

March 24–26, 2027 – Online conference

CONFERENCE TOPICS

1. **Modeling, Analysis and Optimization of Complex Systems**
   - Mathematical and simulation modeling of objects and processes
   - Project and program management
   - Systems analysis of diverse objects and processes
   - Optimization of technological processes
   - Modern optimization methods
   - Business analytics
2. **Intelligent Computer Systems**
   - Data mining and big data technologies
   - Pattern recognition and digital image and signal processing
   - Neurocomputers and neural networks
   - Expert systems for data processing
   - Decision support systems
3. **Computer Science and Software Engineering**
   - Software development and integration
   - Communications, grid and cloud technologies
   - Database development and implementation
4. **Information Technologies in Automation, Electronics, Measurement and Economics**
   - Information technology applications in society, education, medicine, economics, management, civil protection, ecology, law and finance
   - Resource-efficient and environmentally safe technologies
   - Geographic information systems and technologies
   - Automated process control systems
5. **Cybersecurity and Information Protection**
   - Research and analysis of cybersecurity methods and tools
   - Practical implementation of modern cryptographic standards
   - Steganographic methods for transmitting information
   - Technical protection of information
6. **"Young Researchers of the Future" School Student Section**

The official conference languages are Ukrainian and English.

Participation is free of charge.

APPLICATION AND ABSTRACT SUBMISSION

Submit your application and abstract through the online submission form by March 1, 2027. Name the abstract file SectionNumber_FirstAuthorSurname.docx.

ABSTRACT FORMATTING REQUIREMENTS

Abstracts must include an introduction, main body, conclusions and references. Submit 2–4 full A4 pages (210 × 297 mm) in Microsoft Word (.docx). Each abstract must include a declaration on the use of artificial intelligence. See the abstract formatting requirements and template.

ADDITIONAL INFORMATION FOR CONFERENCE PARTICIPANTS

The conference proceedings will be published electronically with an ISBN.

The Organizing Committee reserves the right to reject submissions that fall outside the conference topics or do not meet the requirements.

If you have applied to present and cannot attend the conference in person, please notify the Organizing Committee in advance by phone or email.

The conference page is available on the website of the Department of System Analysis and Control at Dnipro University of Technology.