

## 19<sup>th</sup> International Conference ICTERI-2024: ICT in Education, Research, and Industrial Applications

September 23 – 27, 2024, Lviv – Ukraine

**LinkedIn Group:** [ICT in Education, Research, and Industrial Applications](#)  
**Facebook Group:** [ICTERI Conference](#)  
**Proceedings:** Published by: [Springer CCIS](#) (pending acceptance)  
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[EI-Compendex](#), [Mathematical Reviews](#), [SCImago](#)



Venue: [Ukrainian Catholic University](#), Lviv  
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### Conference Scope

ICTERI is an annual peer-reviewed international Computer Science conference. It focuses on research, design, development, deployment, and usage of advanced Information Systems (IS) and Information and Communication Technology (ICT) Infrastructures in industry and education. Special attention is given to the feasibility and practicality of the proposed ideas/solutions, with a focus on their potential or existing implementation. This can be demonstrated, for example, by a proof-of-concept implementation, a comprehensive prototype, a comprehensive case study, or the analysis of real use cases. Submissions on academic-industrial partnerships for ICT innovation, knowledge transfer, and technological/methodological reports are also welcome.

We solicit submissions of original work, not previously published, or submitted for publication elsewhere. Papers must be submitted to one of the following **Thematic Tracks**. Track topics include but are not limited to:

- **Track 1: Advances in Fundamental ICT/IS Research, and their Applications**
  - Information Science: data and knowledge integration and interoperability; data mining and knowledge discovery
  - Big Data: managing big data and linked open data at scale; data analytics and business intelligence
  - Large-scale distributed computing, cloud- and edge-based approaches
  - Model-driven architectures/approaches for software development and deployment
  - Smart systems: models, technologies, and applications
  - Knowledge representation and reasoning, ontologies and knowledge graphs: extraction, engineering, and evolution
  - Recommender systems: methods and technologies
  - Solving challenges in digital societies
  - Theoretical foundations and practical implications
- **Track 2: Artificial Intelligence: Research and Applications**
  - Deep learning for information mining and knowledge discovery from data of different modalities: text, image, audio, video, sensor output, etc.
  - Novel hybrid or synergetic AI-based approaches for solving computer vision and augmented reality problems
  - Machine-learning-based, statistical, and rule-based approaches in natural language processing solutions and applications
  - Self-explanatory deep-learning-based solutions for real-world applications
  - Planning and reinforcement learning in AI solutions
  - (Distributed) AI-based solutions in robotics and simulation
  - Ethics in AI: Societal Impacts and Critical Applications

### Track 3: ICT Applications in Academia & Industry

- ICT solutions for competence design and development
- ICT development to support technology-enhanced teaching and learning, including life-long learning
- ICT solutions for quality assurance in education and education management
- Novel ICT infrastructures, tools, and environments for research, cooperation, and knowledge transfer
- Experiences in the development and use of ICT for personnel training in industry
- Best practices in cooperative academic-industrial ICT projects; joint academic-industrial ICT research and development
- Successful deployments of novel ICT applications in industry, public organizations, or governments

### Presential Mode

ICTERI supports and respects all the aspects that help promote diversity in our conference community, which aspires to facilitate a truly international and multicultural gathering. Therefore, we prefer physical assembly for the conference as the most effective mode for scientific exchange and community building.

We fully understand, however, that some participants might be under higher risk or stricter constraints, like international travelers. This is why we allow virtual participation for the attendees, as an exclusion. The speakers, who present accepted contributed papers, are expected to be physically present at the conference.

The information about the **arrangements and requirements** for the **virtual attendees** is provided and updated at <https://icteri.org/icteri-2024/hybrid/>.

### Important Dates

All deadlines are "Anywhere on Earth" (23:59 Hawaii) time

Monday, 22.04.2024 – paper **abstract** submission

Monday, 06.05.2024 – all **paper types** submission

Monday, 08.07.2024 – **acceptance** notification

Monday, 12.08.2024 – **camera-ready** papers submission

Monday, 12.08.2024 – **registration**

Monday, 23.09.2024 – Friday, 27.09.2024 – **conference** days

### No Conference Fee

Traditionally, ICTERI does not charge conference fees. Participation is FREE. Infrastructure and service expenses are covered by our sponsors.

### PhD Symposium and Workshops

The Calls for the ICTERI-2024 satellite events are published separately; please visit: <https://icteri.org/icteri-2024/scope-and-calls/>.

## Submission Guidelines

The language of the ICTERI Main Conference is English. Submissions in any other language or not following the style or academic code of ethics guidelines will be rejected without review. Presentations in any other language are also not accepted and withdrawn from the program. All submissions shall be annotated by keywords/phrases freely chosen by the authors. At least three and at most five key phrases have to be provided. All submissions must comply with the Springer LNCS format guidelines: <https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines>. Formatting instructions and template as well as submission guidelines are provided for your convenience at the ICTERI-2024 website: <https://icteri.org/icteri-2024/>. Please submit your paper, in .pdf, to the applicable ICTERI-2024 Track via the EasyChair Conference Management System: <https://easy-chair.org/conferences/?conf=icteri2024>.

## Submission Types

Several types of papers are solicited for the main ICTERI conference tracks. The optional appendix can go beyond the page limit and will be consulted at the discretion of the program committee.

### I. Full research papers (12-16 LNCS pages)

- Report on accomplished, unpublished research work
  - Present a novel method, technique or analysis with appropriate empirical or other evaluation as proof of validity
- Evaluation focuses on originality, technical soundness and the soundness of the real-use demonstration.

### II. Short research papers (10-12 LNCS pages)

- Short reports of preliminary results or work-in-progress
- Evaluation focuses on originality, technical correctness and the value of the planned results in a short to mid-term perspective.

### III. Industry/Education experience papers (12-16 LNCS pages)

- Report on industrial or academic deployments of novel ICT
- Experiences in the effective/efficient use of novel ICT in education

Evaluation focuses on the significance and practical relevance, technical soundness, and accompanying evaluation or industrial validation.

The papers submitted as one of the above types (I-III) that are: (i) evaluated as not sufficiently mature by the Program Committee; and (ii) recognized by the reviewers as interesting and promising in their idea or approach; might be recommended as a Poster.

### IV. Poster Papers (10-12 LNCS pages)

- Concisely present early-stage research in the form of a Short Paper. These papers outline preliminary ideas, concepts, and initial results shaping future work. Posters will be presented in a separate poster session.

Evaluation focuses on originality, technical correctness, the value of the research ideas, and the potential to become a mature research outcome in a short-to-mid-term perspective.

**More details** on the **requirements** for different paper types and the **ways these papers are presented** at the conference are provided on the **Paper Types** page at the **ICTERI-2024** website: <https://icteri.org/icteri-2024/submission-types/>.

## Evaluation and Publication

All submissions will be evaluated by members of the international program committee. Accepted papers will be published in the Springer-Nature Communications in Computer and Information Science (CCIS) series.

Please check the **Previous ICTERI Conferences** page at the ICTERI-2024 website (<https://icteri.org/icteri-2024/previous-icteri-conferences/>) to access the proceedings volumes published by the previous conference instances.

## Presentation

Accepted papers **must be presented at the conference**, in person, by one of their authors, who commit to register and attend the conference. The Program Chairs reserve the right to withdraw those papers from the proceedings, which have not been presented at the conference.

## Organisers

- [Ministry of Education and Science of Ukraine](#)
- [Kherson State University](#), Ukraine
- [Ukrainian Catholic University](#), Ukraine
- [University of Liverpool](#), UK
- [Ludwig Maximilian University of Munich](#), Germany
- [V.N. Karazin Kharkiv National University](#), Ukraine
- [National University of Kyiv Mohyla Academy](#), Ukraine
- [Taras Shevchenko National University of Kyiv](#), Ukraine
- [Universität Klagenfurt](#), Austria
- [Lviv Polytechnic National University](#), Ukraine
- [University of Warmia and Mazury in Olsztyn](#), Poland
- [Ukrainian Scientific and Educational IT-Society \(UNIT\)](#), Ukraine
- [ELLIS Associate Unit Lviv](#), EU
- [SLM Software](#), AoE

## General Chairs

**Yaroslav Prytula**, Ukrainian Catholic University, Ukraine  
**Oleksandr Spivakovsky**, Kherson State University, Ukraine

## Program Chairs

**Vadim Ermolayev**, Ukrainian Catholic University, Ukraine  
**Igor Potapov**, University of Liverpool, UK

## Program Committee

Please check the **Program Committee** page at the ICTERI-2024 website for the list of the PC members: <https://icteri.org/icteri-2024/program-committee/>.

## Poster Chair

**Andrii Hlybovets**, National University of Kyiv Mohyla Academy, Ukraine

## PhD Symposium Chairs

**Roman Hornung**, Ludwig Maximilian University of Munich, Germany  
**Oleksii Ignatenko**, Ukrainian Catholic University, Ukraine

## Proceedings Chair

**Vitaliy Yakovyna**, Lviv Polytechnic National University, Ukraine;  
University of Warmia and Mazury in Olsztyn, Poland

## Local Organization Chairs

**Oles Dobosevych**, Ukrainian Catholic University, Ukraine  
**Maksym Vinnik**, Kherson State University, Ukraine

## Publicity Chairs

**Andriy Hrynykha**, Ukrainian Catholic University, Ukraine  
**Nataliya Kushnir**, Kherson State University, Ukraine

## How to Get to Lviv and UCU

Lviv is a major cultural and tourist venue in the West of Ukraine, having tight historical links to the neighbouring European countries. The city is easily reachable by using railway or bus connections from Europe through Poland, Slovakia, or Hungary. Lviv is also connected by rail and road to the major Ukrainian cities. More details are available at <https://lviv.travel/en/lviv-plans>.