

**INTERNATIONAL INFORMATION TECHNOLOGY  
UNIVERSITY JSC**

**DIGITAL TECHNOLOGIES IN  
EDUCATION, SCIENCE AND INDUSTRY  
DTESI 2023**

Proceedings of the 8<sup>th</sup> International Conference

**December 6-7, 2023**

**Almaty, Kazakhstan**

# Preface

The 8<sup>th</sup> International Conference on Digital Technologies in Education, Science and Industry (DTESI 2023) was successfully held on December 6-7, 2023 in Almaty, Kazakhstan at the International Information Technology University in a hybrid format.

The conference's purpose was to discuss the latest scientific results in the digital development of society, formulate research problems and outline approaches and tools for their solution.

DTESI 2023 hosted seven outstanding keynote speakers:

- Dr. Seref Sagiroglu, Gazi University (Turkiye)
- Dr. Seyda Ertekin, Middle East Technical University (Turkiye)
- Dr. Bohdan Haidabrus, Riga Technical University (Latvia)
- Dr. Pakizar Shamoï, Kazakh-British Technical University (Kazakhstan)
- Dr. Madina Mansurova, Al-Farabi Kazakh National University (Kazakhstan)
- Dr. Oscar Pastor, Universidad Politécnică de Valencia (Spain)
- Dr. Oleksandr Kuchanskyi, Taras Shevchenko National University of Kyiv (Ukraine)

The Conference received 80 submissions, and 56 of them were selected for publication. Scientists from all over Kazakhstan, as well as representatives of the industry, took an active part in the event. In addition, researchers from such countries as Jordan, Ukraine, Turkiye, Portugal, Germany, Poland and Uzbekistan also made their contributions.

We would like to express our gratitude and appreciation to all the participants of DTESI 2023 and the Organizing and Program Committee.

## **Editors**

Askar Khikmetov

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