

**INTERNATIONAL INFORMATION TECHNOLOGY  
UNIVERSITY JSC**

**DIGITAL TECHNOLOGIES IN  
EDUCATION, SCIENCE AND INDUSTRY  
DTESI-2022**

Proceedings of the 7<sup>th</sup> International Conference

**October 20-21, 2022**

**Almaty, Kazakhstan**

## Preface

The 7<sup>th</sup> International Conference on Digital Technologies in Education, Science and Industry (DTESI 2022) was successfully held on October 20-21, 2022 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 2022 hosted six outstanding keynote speakers:

- Dr. Shadi A. Aljawarneh, Jordan University of Science and Technology (Jordan)
- Dr. Abd Rahim Ahmad, Universiti Tenaga Nasional (Malaysia)
- Dr. Suzaida Binti Bakar, Universiti Tenaga Nasional (Malaysia)
- Dr. Elhadi M. Shakshuki, Acadia University (Canada)
- Eduard Kan, Coursera Business Development Director in Central Asia (Kazakhstan)
- Yerbolat Kalim, Ministry of Digital Development, Innovation and Aerospace Industry (Kazakhstan)

The Conference received 103 submissions, and 30 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, Turkey, Norway, Spain, and Belarus also made their contributions.

We would like to express our gratitude and appreciation to all the participants of DTESI 2022 and the Organizing and Program Committee.

### **Editors**

Askat Khikmetov  
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