



INFORMATION LETTER

ASEDU-IV 2024: IV International Conference on Advances in Science, Engineering and Digital Education

(Navoi, Uzbekistan, 29-31 May 2024)

Navoi State Pedagogical Institute and Bukhara Engineering Technological Institute in cooperation with the International Union of Scientific and Engineering Associations, Siberian Scientific Centre DNIT are organizing IV International Conference on Advances in Science, Engineering and Digital Education – ASEDU-IV 2024. The Conference will take place in Uzbekistan on 29-31 May 2024.

Partners of the Conference: Namangan Engineering-Technological Institute, Termez Engineering-Technological Institute, Samarkand branch of Tashkent State University of Economics (Uzbekistan), Ankara University (Turkey), ITM University Gwalior (India), Management and Science University, International Cultural Communication Center (Malaysia), Technological University of Tajikistan (Tajikistan), Karaganda Technical University (Kazakhstan), Osh Technological University named after M. M. Adyshev (Kirghizia).

Scientists and faculty from universities, academic institutes, practitioners, graduate students, teachers of vocational and higher education, schools and institutions of additional education are invited to participate in the Conference.

The purpose of the conference is to share the results and prospects in the development of science and technology, professional, scientific and technical education, computer technologies and digital educational environment based on innovative technologies. The conference is dedicated to advanced technologies in science and technology, modern achievements in the field of natural science, engineering and digital education. The key speeches and discussion will be devoted to the urgent issues of introducing modern methods and technologies in technical and digital education, including the trends and prospects of modern education in mathematics, physics, computer science, vocational training, etc.

<https://conf.domnit.ru/en/conferences/asedu-2024/>

The work of the Conference is planned in the following directions:

1. Natural Science and Education

- ✓ *New directions and areas of Mathematics, Physics, Chemistry, Biology, Earth Sciences, Geology, Geography, Astronomy, as well as natural science knowledge, methods of teaching technical and natural science subjects*

2. Engineering and Vocational Education

- ✓ *Industrial Engineering*
- ✓ *Construction Engineering*
- ✓ *Innovative Engineering: Development and HR*
- ✓ *Business Engineering*
- ✓ *Software Engineering and Cybernetics*
- ✓ *STEM Education and WorldSkills*
- ✓ *Use of Artificial Intelligence in Engineering and Education*
- ✓ *Digitalisation and its Effect on Science and Vocational Education*
- ✓ *Use of Artificial Intelligence in Science and Education*

3. Digital Transformations in Science and Education: New Trends and Technologies

- ✓ *Information and Communication Technologies in Technical Education*
- ✓ *Development of Digital Educational Environment based on Innovative Technologies*
- ✓ *E-learning Hardware and Software*
- ✓ *Theoretical Bases of E-learning Environment*
- ✓ *Big data*
- ✓ *E-learning in Technical Education*

4. Computer Science and Education

- ✓ *Data mining*
- ✓ *Gamification in Education*
- ✓ *Human-Computer Interaction in Science and Education*
- ✓ *Image processing*
- ✓ *Integrated Online Courseware*
- ✓ *Software Design and Engineering Education*
- ✓ *Web-based Training*
- ✓ *Virtual Learning and virtual Reality*

The Conference will take place on 29-31 May 2024 in Navoi State Pedagogical Institute, Navoi, Uzbekistan, online session in Zoom will be also organized for foreign participants.

All conference papers accepted to the Conference will be presented in one of the formats (face-to-face scientific sessions, virtual sessions in Zoom, pre-recorded video-reports, or E-poster presentations).

One can register for the Conference on-line on the web-site of the Conference. The registration is open till 20 May 2024.

Proceedings of the Conference

The Proceedings of the Conference in the form of full papers in the English language will be sent to **AIP Conference Proceedings** for evaluation and publishing. The proceedings of ASedu-I-2020 were published in Journal of Physics: Conference Series (volume 1691), ASedu-II-2021 in AIP Conference Series (Volume 2467), ASedu-III 2022 in AIP Conference Series (Volume 2969).

The official languages of the Conference are Russian and English. The Organizers will provide professional interpretation if required.

Conference Venue

The Conference will take place in Navoi and Samarkand, Uzbekistan.

We will provide the participants with visa support documents (an official letter of invitation). We will be glad to help with accommodation in cozy and hospitable hotels of Krasnoyarsk at special prices to all participants during the conference by priory arrangement. Accommodation and travel expenses are paid by sending organizations.

Registration Fee

The registration fee for participation is 220 US\$. The fee is paid after the notice about acceptance of the paper.

Contact Details

Please forward all the questions concerning the participation and the programme to the executive secretary:

Anna Voroshilova Tel. +7 391 227 84 84, +7 999 318 33 34 E-mail: krasnio@bk.ru



ASEDU

Advances in Science, Engineering
and Digital Education

Detailed information is available at the website:

<https://conf.domnit.ru/en/conferences/asedu-2024/>