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ADT-ISMDDC

Proceedings of the INTERNATIONAL SCIENTIFIC AND
PRACTICAL WORKSHOP

"Advanced Digital Technologies: Intelligent Systems, Modeling, and
Data-Driven Control" (ADT-ISMDDC) co-located with ICST-2026

XIV INTERNATIONAL SCIENTIFIC AND PRACTICAL
CONFERENCE "Information Control Systems and Technologies"

Odessa, Ukraine
September, 2026

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This volume represents the proceedings of the international scientific and practical workshop "Advanced Digital Technologies: Intelligent Systems, Modeling, and DataDriven Control" (ADT-ISMDDC) co-located with ICST-2026 XIV international scientific and practical conference "Information Control Systems and Technologies", held in Odessa, Ukraine, in September, 2026. It comprises 37 contributed papers that were carefully peer-reviewed and selected out of 92 submissions

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Preface

It is our pleasure to present you the proceedings of the international scientific and practical workshop "Advanced Digital Technologies: Intelligent Systems, Modeling, and Data-Driven Control" (ADT-ISMDDC) co-located with ICST-2026 XIV international scientific and practical conference "Information Control Systems and Technologies", held in Odessa (Ukraine) on September 22–24, 2026 (<http://icstconf.com/>). The workshop took the form of oral presentations of peer-reviewed regular papers.

The international scientific and practical workshop "Advanced Digital Technologies: Intelligent Systems, Modeling, and Data-Driven Control" (ADTISMDDC) co-located with ICST-2026 XIV international scientific and practical conference "Information Control Systems and Technologies" is organized by Information Technology Department Odessa National Polytechnic University with support Kiev National University, T. Shevchenko, Kharkov National University of Radio Electronics, National Aviation University, Odessa National University I.I. Mechnikov, Sumy State University, Admiral Makarov National University of Shipbuilding, Lodz Technical University, Azerbaijan State Oil Industry University, Anhalt University of Applied Sciences.

The ADT-ISMDDC focuses on all technical and practical aspects of the latest research and results of international scientists and practitioners related to information control systems and technologies. This workshop provides opportunities to exchange new ideas, to establish business or research relations and to find global partners for future collaboration.

The ADT-ISMDDC continues the theme of the X international scientific and practical conference ICST-2020 conference successfully held on September 24–26 2020 (<http://ceur-ws.org/Vol-2711/>), XI international scientific and practical conference ICST-2023 conference successfully held on September 21–23 2023 (<https://ceur-ws.org/Vol-3513/>), XII international scientific and practical conference ICST-2024 conference successfully held on September 23–25 2024 (<https://ceurws.org/Vol-3790/>).and XIII international scientific and practical conference ICST2025 conference successfully held on September 24–26 2025 (<https://ceurws.org/Vol-4048/>).

International Program Committee of the workshop has 20 members from Slovak Republic, Sweden, Ukraine, United States, Poland, India, Egypt, Portugal, Czech Republic.

Scientists participated in the international scientific and practical workshop "Advanced Digital Technologies: Intelligent Systems, Modeling, and Data-Driven Control" co-located with ICST-2026 XIV international scientific and practical conference "Information Control Systems and Technologies" submitting 92 proposals and papers from 52 Ukrainian universities and research organizations, as well as from universities in India, Jamaica, Kazakhstan, Canada, Algeria, the USA, Austria, Kyrgyzstan, Georgia, Israel, Poland, Turkey, Bulgaria, Norway, Sweden, Slovakia, Egypt, Portugal, and the Czech Republic.

The members of the Program Committee and the rules for paper selection were publicly announced in <http://icst-conf.com/>. Work on the workshop was carried out on the basis of the easychair system:

<https://easychair.org/my/conference?conf=adtismddc2026>

Due to the fact that the international scientific and practical workshop "Advanced Digital Technologies: Intelligent Systems, Modeling, and Data-Driven Control" (ADT-ISMDDC) co-located with ICST-2026 XIV international scientific and practical conference "Information Control Systems and Technologies". Odessa, Ukraine, September 22–24, 2026 (<http://icst-conf.com/>) takes place in Odessa and in Ukraine as a whole in conditions of constant armed action, accompanied by regular shelling, destruction, power outages, and other negative factors affecting the safety of the workshop, so program committee was unable to carry out the workshop work in person and even online. In this regard, we ask you to be understanding of our problems and understand why we were forced to use our group on Facebook to organize the conference - <https://www.facebook.com/groups/1297695647105081/>, where video reports of articles selected after multiple reviews and consideration by the program and organizing committees were presented. Video reports were presented on Facebook on September 22 - 24 in all four areas of the workshop.

Workshop's video is available at <https://www.facebook.com/groups/1297695647105081/>. The workshop reflects scientifically practical work containing developments, research and practical application of the results obtained by the authors in the fields:

1. Intelligent systems and data-driven technologies.
2. Control, robotics, and distributed systems.
3. Digital platforms, security, and ICT infrastructure.
4. Modeling, software engineering, and applied ICT.

All papers were evaluated from 3 or 5 reviewers. Based on the reviews, a rating of papers was compiled. Papers with a positive average score were accepted for presentation at the workshop.

We received camera-ready papers, which were also evaluated by reviewers (checks were conducted to determine whether all reviewer comments and recommendations had been addressed, the extent of AI usage, and the presence of plagiarism). As a result, only 37 camera ready papers are accepted for presentation at the workshop. This did not take into account the number of articles whose authors withdrew their work based on the results of the review. So, final acceptance rate is about 40%.

We would like to thank the members of International Program Committee and Organizing Committee, and external reviewers for their excellent and tireless work. We sincerely wish all participants fruitful work and further participation in the workshop! We hope that the workshop results make a significant contribution to the development of information control systems & technologies in Ukraine and worldwide.

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