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ICST

Information Control Systems and Technologies

Proceedings of the 12th International Scientific and Practical
Conference "Information Control Systems & Technologies"
(ICST2024)

Odessa, Ukraine
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This volume represents the proceedings of the 12th International Scientific and Practical Conference "Information Control Systems & Technologies", held in Odessa, Ukraine, in September, 2024. It comprises 47 contributed papers that were carefully peer-reviewed and selected out of 93 submissions

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Preface

It is our pleasure to present you the proceedings of 12th International Scientific and Practical Conference "Information Control Systems & Technologies" (ICST-2024), held in Odessa (Ukraine) on September 23–25, 2024 (<http://icst-conf.com/main-eng.html>). The conference took the form of oral presentations of peer-reviewed regular papers.

12th International Scientific and Practical Conference "Information Control Systems & Technologies" (ICST-2024) 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 ICST-2024 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 conference provides opportunities to exchange new ideas, to establish business or research relations and to find global partners for future collaboration.

The ICST-2024 continues the theme of the ICST-2020 conference successfully held on September 24–26 2020 (<http://ceur-ws.org/Vol-2711/>) and ICST-2023 conference successfully held on September 21–23 2023 (<https://ceur-ws.org/Vol-3513/>).

International Program Committee of Conference has 22 members. 100 % of the ICST-2024 International Program Committee members have more than 15 DBLP papers.

There are the representatives of 63 Ukrainian Universities and of 19 Universities from around the world (Australia, Bulgarian, Czechia, Georgia, India, Indonesia, Ireland, Slovak Republic, Kazakhstan, Kyrgyzstan, Poland, Philippines, Switzerland, Turkey, United Kingdom, USA).

12th International Scientific and Practical Conference "Information Control Systems & Technologies" received 93 submissions from Ukraine and the world. Scientists from Ukraine, Australia, Bulgarian, Czechia, Georgia, India, Indonesia, Ireland, Slovak Republic, Kazakhstan, Kyrgyzstan, Poland, Philippines, Switzerland, Turkey, United Kingdom, USA took part in ICST-2024.

The members of the Program Committee and the rules for paper selection were publicly announced <http://icst-conf.com/main-eng.html>. Work on the conference was carried out on the basis of the easychair system: <https://easychair.org/my/conference?conf=icst20240>

Due to the fact that the XII International Scientific and Practical Conference "Information Control Systems & Technologies (ICST-Odessa-2024)" 23 of September - 25 of September 2024 (<http://icst-conf.com/main-eng.html>) takes place in Odessa and in Ukraine as a whole in conditions of constant armed action, accompanied by shelling, destruction, power outages and other negative organizational factors the conference program committee was unable to carry out the

conference 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 International Conference Information Control Systems & Technologies (ICST) 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 23 - 25 in all three areas of the conference.

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

- Information control systems;
- Intelligent systems and data analysis;
- Modeling and software engineering.

All papers were evaluated by 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 Conference.

We received camera-ready papers, which were also evaluated by reviewers (it was checked whether all comments and recommendations were taken into account). As a result, only 47 camera ready papers are accepted for presentation at the Conference. 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 51%.

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 conference! We hope that the conference results make a significant contribution to the development of information control systems & technologies in Ukraine.

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