

# 2nd International Workshop on Advanced Applied Information Technologies: AI & DSS (AdvAIT - 2025)\*

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## Preface

It is our pleasure to present the proceedings of 2nd International Workshop on Advanced Applied Information Technologies: AI & DSS (AdvAIT-2025), held in Khmelnytskyi (Ukraine) on December 5, 2025.

The workshop is organized by Information Technologies' Faculty at Khmelnytskyi National University and Laboratory on Reliability Engineering and Computational Intelligence at University of Žilina with the support of the PUBLIC ORGANIZATION "UKRAINIAN SCIENTIFIC AND EDUCATIONAL IT SOCIETY". The 2nd International Workshop on Advanced Applied Information Technologies: AI & DSS (AdvAIT-2025) is dedicated to the upcoming 35th Anniversary of Information Technologies' Faculty of Khmelnytskyi National University.

AdvAIT-2025 focuses on technical and practical aspects of the latest research and results of international scientists and practitioners related to information technologies. Workshop provides opportunities to exchange new ideas, to establish business or research relations and to find global partners for future collaboration. We hope that Workshop results make a significant contribution to the development of advanced applied information technologies in Ukraine and Slovakia.

International Program Committee has 21 members. 100% of the AdvAIT-2025 International Program Committee members have more than 15 DBLP papers. There are the representatives of 10 Universities from around the world (Žilina University, Newcastle University, Leeds Beckett University, Oxford Brookes University, University of Vienna, Comenius University in Bratislava, Technical University of Ostrava, Prigo University, Silesian University of Technology, Ain Shams University) and of 5 Ukrainian Universities (Khmelnytskyi National University, Taras Shevchenko National University of Kyiv, West Ukrainian National University, Lviv Polytechnic National University, National Aerospace University "Kharkiv Aviation Institute").

Workshop received 64 submissions from Ukraine and the world. All papers were evaluated by 2-3 reviewers. Based on the reviews, a rating of papers was compiled. Papers with a positive average scores were accepted for presentation at the Workshop. According to decision of the International Program Committee, 26 papers (40% acceptance rate) were accepted for Workshop.

The AdvAIT-2025 joined scientists from Ukraine, Slovakia, United Kingdom, Czech Republic, Austria, Poland, Estonia, Egypt. In general, the representatives from 15 institutions from around the world, and 17 Ukrainian institutions (summary 32 institutions) took part in the Workshop.

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 thank everyone for a fruitful work and interesting presentations! We hope that the workshop results make a significant contribution to the development of intelligent information technologies, and information security systems in Ukraine, Slovakia and in the world.

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