

Preface: applied information technologies and artificial intelligence systems

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Abstract

This document is the preface to the International Scientific Workshop on Applied Information Technologies and Artificial Intelligence Systems (AIT&AIS-2025), held on December 18–20, 2025, in Chernivtsi, Ukraine, at Yuriy Fedkovych Chernivtsi National University, in a hybrid (online/offline) format with English as the working language (<https://kkn.chnu.edu.ua/en/aitais/about-aitais/>). The AIT&AIS Workshop aims to provide a forum for researchers and practitioners to present advances in applied information technologies and artificial-intelligence systems, spanning theory, methods, tools, and real-world applications.

Keywords

Artificial intelligence, applied information technologies, machine learning, deep learning, neural networks, big data analytics, intelligent systems, cybersecurity, IoT, ethics of AI, AR/VR in intelligent systems, smart network security, computational intelligence in medicine.

1. Introduction

The Applied Information Technologies and Artificial Intelligence Systems Workshop unites the community working at the intersection of applied IT and AI systems, from foundational models to deployed intelligent solutions. The AIT&AIS Workshop welcomes contributions in (but not limited to) areas such as:

- Computational intelligence and machine learning;
- Deep learning and neural networks; big-data analytics;
- Intelligent systems;
- AI in cybersecurity;
- IoT+AI integration;
- AI ethics;
- Methods and tools for managing innovative enterprises, smart homes, and cities;
- Augmented and virtual reality in smart systems;
- Security of intelligent networks;
- Computational intelligence in medicine. These topics exemplify both the scientific diversity of the field and its rapidly increasing impact on industry and society.

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The official language for the Applied Information Technologies and Artificial Intelligence Systems Workshop is English.

The format of AIT&AIS-2025 is hybrid, allowing both onsite participation at Yuriy Fedkovych Chernivtsi National University and remote presentation of peer-reviewed individual papers. All articles go through double-blind peer review by external reviewers.

This year, the Organizing Committee received 42 submissions, of which 25 were accepted for presentation as regular papers. These papers and extended abstracts were published in the proceedings of the 1st International Workshop on Applied Information Technologies and Artificial Intelligence Systems (AIT&AIS-2025).

2. Acknowledgements

We sincerely thank all authors for their submissions and for advancing the field of applied IT and AI systems during the AIT&AIS Workshop. We appreciate the Program Committee for their thorough and timely reviews, along with their constructive suggestions, and the Organizing Committee for their dedicated efforts in organizing a high-quality scientific program and ensuring a smooth hybrid experience at Yuriy Fedkovych Chernivtsi National University. Lastly, we are grateful to our speakers and participants – both onsite and online – for fostering a lively and open scientific dialogue. We also thank the Chairs of the Applied Information Technologies and Artificial Intelligence Systems Workshop, the Program Committee, and all reviewers for their commitment to selecting quality papers and upholding high scientific standards.

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