

PREFACE



It is our great pleasure to present the proceedings of the 2nd International Workshop on “Bioinformatics and applied information technologies for medical purpose”, held in Ben Guerir, Morocco during November 12-13, 2025.

The workshop was organized by the Mohammed VI Polytechnic University (Morocco) and Ternopil Ivan Puluj National Technical University (Ukraine), with the support of researchers from the Faculty of Computer Information Systems and Software Engineering and the Faculty of Applied Information Technologies and Electrical Engineering, and this year it was held on the basis of Mohammed VI Polytechnic University (Morocco).

Today, there is a rapid development of the IT industry in the direction of solving applied problems regarding the effective organization of the information process to reduce the costs of time, labor, energy and material resources in all areas of human life and modern society, based on the rational use of modern achievements in the field of computer technology and other high technologies, the latest means of communication, software and practical experience. The introduction of concepts and technologies of artificial intelligence, the Internet of Things, big data analysis, cloud technologies, machine learning, etc., is especially fast and effective in the field of biomedical technologies, in particular from the collection, storage, modeling and analysis of biomedical data, signals and images, to the development of complex intellectualized human-machine systems, in particular brain-computer interfaces, intellectualized systems of human empowerment and rehabilitation lost functions, etc.

The primary goal of BAITmp-2025 is to discuss the results of original scientific research in the directions of creating or improving applied information technologies for the needs of biomedicine.

This workshop provides opportunities to exchange new ideas establish business or research relationships and find global partners for future cooperation. International Program Committee of BAIT-2025 has 23 members. There are the representatives of the Morocco, United Kingdom, Poland, Slovakia, Croatia, Japan and Ukrainian Universities.

The 2nd International Workshop on “Bioinformatics and Applied Information Technologies for medical purpose”, received 34 submissions from representatives of universities from around the world. All papers were evaluated by two or three reviewers. Based on the reviews, a rating of papers was compiled. Papers with a positive average scores were accepted for presentation at the Workshop. We received papers from scientists from Morocco, Ukraine, Poland, United States, Algeria, Congo. However, not all of these papers have successfully passed peer review. According to the decision of the International Program Committee, 17 papers were accepted for this volume.

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 everyone fruitful work and interesting presentations!

We hope that the workshop results make a significant contribution to the development of bioinformatics and intelligent information technologies in the world.

November, 2025
Abdellah Menou
Mykhaylo Petryk