



TAIMA 2026

SPECIAL SESSION CALL FOR PAPERS

Intelligent Medicine

Modern medicine is undergoing a major transformation thanks to the rapid evolution of imaging technologies, computational biology, and artificial intelligence (AI). From detecting pathologies in medical images to molecular docking for drug discovery and real-time assistance during surgical procedures, these approaches aim to make clinical care more precise and efficient.

Whether it's the automatic identification of tumors on MRIs, the early detection of dementia, or the prediction of molecular interactions between ligands and biological targets, medical AI is now a strategic research area with a considerable societal impact.

This special session is dedicated to recent advances in biomedical image processing and computational biology applied to medicine. It covers a wide range of topics, such as segmentation, pathology detection, machine learning, and multimodal data fusion.

TOPICS OF INTEREST

- **Computer vision:** segmentation, object detection, texture analysis and classification, and 3D vision.
- **Artificial intelligence for diagnostics:** systems for detecting pathologies (cancer, cardiovascular diseases, neurology) and decision support and recommendation systems in medicine.
- **Big Data analytics:** Big Data analytics in healthcare, data augmentation and synthetic data generation, and telemedicine and network systems.
- **Multimodal data fusion:** integration of heterogeneous data, medical Internet of Things, telemedicine systems, and smart health networks.
- **Computational biology:** molecular docking and molecular dynamics, ligand-target interaction modeling, and structure-based drug design.

SUBMISSION TYPE

Submissions must be written in **English**, and will be **peer-reviewed by an international committee**. The maximum length is **6 pages**.

IMPORTANT DATES

Sub. opening: 20 **Apr. 2026**

Sub. deadline: 02 **May 2026**

Accept. notif.: 09 **May 2026**

Final version sub.: 15 **May 2026**

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