

**INVITED SESSION SUMMARY****Title of Session:****ADVANCES IN HEALTH INFORMATICS****Name, Title and Affiliation of Chair:**

- 1. Daniela GIFU, Romanian Academy – Iasi Branch**
- 2. Youzhu LI, Huazhong Agricultural University, Wuhan, China**
- 3. Ahmed RAGAB, O6U University, Egypt**

Details of Session (including aim and scope):

This invited session is dedicated to exploring the intersection of Intelligent Systems, Computer Science, and Healthcare. We warmly welcome algorithmic, methodological, or empirical original contributions, as well as innovative theories relevant to the broader context of Health Informatics. Submissions should focus on one or more specific aspects of theory, design, development, evaluation, or deployment of health informatics solutions.

The topics of interest include, but are not limited, to:

- **Next-Generation Data Analytics:** novel methods for exploring and analyzing healthcare data, including biomedical pattern recognition, biomarker discovery, and personalized treatment; explainable AI (XAI) and Visual Analytics for clinical decision support; Big Data challenges: distribution, parallelization, large-scale graph analytics, and optimization of data analytics techniques in healthcare.
- **Smart and Secure Health Systems:** design, development, deployment, and evaluation of high-performing, privacy-preserving, and secure software or hardware systems; addressing Privacy and Security challenges in sharing sensitive healthcare data; ensuring Healthcare Data Quality and Integrity.
- **Human-Centric and Interactive Health Technologies:** Information Technology for healthcare delivery and management; interaction design for wearable, ubiquitous health technologies and novel multimodal devices; user interactions and human factors in Electronic Health Records (EHR) and decision-support systems.
- **Innovative Frontiers (UAVs and Drones):** cutting-edge use of drones and Unmanned Aerial Vehicles (UAVs) for healthcare logistics, including the delivery of medical supplies and emergency support in hard-to-reach areas; Innovative applications of UAVs in health informatics, such as real-time data collection and surveillance for public health monitoring.

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

- [Institute of Computer Science Iasi at the Romanian Academy](#)
- [College of Public Administration](#)
- [Faculty of Information Systems and Computer Science, O6U](#)

Website URL of Call for Papers (if any):

under construction

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