

The European Society for Artificial Intelligence in MEDicine (AIME), was established in 1986 with two main goals:

1. to foster fundamental and applied research in the application of Artificial Intelligence (AI) techniques to medical care and medical research, and
2. to provide a forum for reporting significant results achieved at biennial conferences.

A major activity of this society has been a series of international conferences, from Marseille (FR) in 1987 to Amsterdam (NL) in 2007, held biennially over the last 20 years.

The AIME'09 conference will be a unique opportunity to present and improve the international state of the art of AI in BioMedicine from both perspectives of theory, methodology, and application.

For this purpose, AIME'09 will include invited lectures, full and short papers, tutorials, [workshops](#), and a [doctoral consortium](#).

The conference will be held in Verona - Italy from July 18 to July 22, 2009.

Invited Speakers

Carol Friedman, Department of Biomedical Informatics, Columbia University ([PPT](#) file)
Catherine Garbay, Laboratoire d'Informatique de Grenoble, CNRS, France ([PDF](#) file)

Scope

Original contributions are sought regarding the development of theory, techniques, and applications of AI in BioMedicine, including the exploitation of AI approaches to molecular medicine and biomedical informatics and to healthcare organizational aspects.

Contributions to theory may include presentation or analysis of the properties of novel AI methodologies potentially useful to solve biomedical problems.

Papers on techniques and methodologies should describe the development or the extension of AI methods and their implementation, and discuss the assumptions and limitations of the proposed methods and their novelty with respect to the state of the art.

Papers addressing systems should describe the requirements, design and implementation of new AI-inspired tools and systems, and discuss their applicability in the medical field.

Application papers should describe the implementation of AI systems to solve significant medical problems, and should present sufficient information to allow evaluation of the practical benefits of the system.

The scope of the conference includes the following areas:

- Knowledge Acquisition and Management
- Machine Learning, Knowledge Discovery and Data Mining
- Biomedical Ontologies and Terminologies
- Decision Support Systems
- Neural Networks and Belief Networks
- Reasoning under Uncertainty
- Temporal and Spatial Representation and Reasoning
- Case-Based Reasoning
- Planning and Scheduling
- Protocols and Guidelines
- Information Retrieval
- Natural Language Generation and Understanding
- Biomedical Computer Vision, Imaging, and Signal Interpretation
- Intelligent Agents
- Telemedicine and Cooperative Systems
- Cognitive Modelling
- Healthcare Process Management