

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.

## Invited Speakers

Carol Friedman, Department of Biomedical Informatics, Columbia University  
Catherine Garbay, Laboratoire d'Informatique de Grenoble, CNRS, France

## 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

## Submission of proposals for workshops and tutorials

As in previous AIME conferences, proposals for the organisation of tutorials and satellite workshops are sought regarding any of the above topic areas. Proposals for tutorials and workshops have to be send by email to Yuval Shahr ( [yshahar@bgumail.bgu.ac.il](mailto:yshahar@bgumail.bgu.ac.il) ) and Carlo Combi ( [carlo.combi@univr.it](mailto:carlo.combi@univr.it) ).

## Paper Submission

There are two categories of paper submission

1. Full research papers (up to 10 pages)
2. Short papers (up to 5 pages) that are
  - a. short reasearch paper
  - b. demonstration of implemented systems
  - c. late-breaking results (work-in-progress)

Papers should be formatted according to Springer's LNCS format (see [www.springeronline.com/lncs](http://www.springeronline.com/lncs) or [www.springer.de/comp/lncs/authors.html](http://www.springer.de/comp/lncs/authors.html)). Submission to AIME'09 will be electronically only.

## Call for papers

Written by Roberto Posenato - Last Updated Wednesday, 28 January 2009 10:41

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Authors are asked to submit an abstract first, and then to upload the full paper.

The paper submission web page is available at

[http://aimedicine.info/aime09/index.php?option=com\\_content&view=article&id=12&Itemid=13](http://aimedicine.info/aime09/index.php?option=com_content&view=article&id=12&Itemid=13)

All accepted papers will appear in the conference proceedings which will be published as part of Springer's "*Lecture Notes in AI*" series.

In addition, the authors of the best submissions will be invited to expand and refine their papers for possible publication in the journal *Artificial Intelligence in Medicine* (Elsevier).

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## Important dates

Proposals for Tutorials: February 9, 2009

Proposals for Workshops: February 9, 2009

Electronic Draft Abstract Submission Deadline: February 2, 2009

Electronic Paper Submission Deadline: February 9, 2009

Notification of Acceptance: April 6, 2009

Camera-Ready Copy Deadline: April 27, 2009

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Carlo Combi, Barbara Oliboni, Roberto Posenato, and Gabriele Pozzani

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Yuval Shahar, Beer Sheva, Israel (Programme Committee co-Chair) Carlo Combi, Verona, Italy  
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