

CALL FOR PAPERS

**A2HC @ AAMAS 2015**

IX Workshop on Agents Applied in Health Care  
[www.fe.up.pt/A2HC15](http://www.fe.up.pt/A2HC15)

May 4-8, 2015, Istanbul, Turkey  
AAMAS2015: <http://www.aamas2015.com/>

Submission  
<https://easychair.org/conferences/?conf=a2hc2015>  
(Extended submission deadline: February 22, 2015)

## **Aims and Scope**

Since 2002, AAMAS has become one of the most important forums of discussion regarding agents and multi-agents systems.

Intelligent agent-based systems constitute one of the most exciting research areas in Artificial Intelligence. Due to the growing interest in the application of agent-based systems in health care, a number of applications addressing clinical problems are already based in agent technology. Thus, it is now be a good time for the specialists in the field to meet and report on the results achieved in this area, to discuss the benefits (and drawbacks) that agent-based systems may bring to medical domains, and also to provide a list of the research topics that should be tackled in the near future.

Current topics of research include personalized health systems for remote and autonomous tele-assistance, communication and co-operation between distributed intelligent agents to manage patient care, information agents that retrieve medical information from distributed repositories, intelligent and distributed data mining, and multi-agent systems that assist the doctors in the tasks of monitoring and diagnosis. Several methodological and technical problems have been discovered by the researchers that attempt to deploy agent-based systems in the medical area; just to name a few, the growing number of huge databases that need to be integrated (e.g. genetic data from next generation sequencing), the difficulty to integrate new agent-based systems with legacy software, the need to apply changing national and international laws and regulations concerning the privacy of medical data and the security of the transaction of patient information between agents.

Covering a wide spectrum of research areas, A2HC intends to bring together communities from Agents/Multi-Agent Systems and clinicians working on Healthcare, providing a presentation and discussion forum for researchers in the area, highlighting innovative approaches, multidisciplinary works, and defining future research directions.

## Topics of Interest

Submissions should concern the use of agents (virtual or physics) encompassed in the healthcare context - e.g. ranging from equipment and drug inventory management to patient clinical record and follow-up management, or even patient monitoring in either a hospital or home environment, and patient transportation scheduling.

Topics of interest include, but are not limited to:

- Mobile Agents in Hospital Environments
- Patient Empowerment through Personalised Agent-based Systems
- Agents that provide autonomous and remote care delivery.
- Medical Agent-based Decision Support Systems, including Recommender Systems
- Agents that provide information about medical services.
- MAS for patient monitoring and diagnosis.
- Applications of agents and multi-agent systems in health care.
- MAS that improve medical training or education (e.g. tutoring systems).
- Information agents that gather, compile and organise medical data and knowledge available on Internet.
- Solutions to the basic methodological and technological problems associated to the real deployment of health-care agent-based systems:
  - Security, privacy of medical data.
  - Social acceptance of agent-based systems.
  - Integration and use of medical ontologies.
  - Lack of centralised control.
  - Communication standards.
  - Integration with other types of software.
- Impact of Agents and Robots in Patient Quality of Life
- Robotics in Healthcare (Prosthetics / Surgical Robotics/Assistive Technologies)
- Legal and ethical issues related to the use of agents in health care.
- Surveys providing an up to date view of the state of the art in the area of agents in health care.

## Important Dates

Extended Submission Deadline: February 22 2015

Notification of Acceptance: March 10 2015

Camera-ready Deadline: March 19 2015

Workshop: May 4-5 2015

## Venue

A2HC will be held in May 4-5, 2014 in Istanbul, Turkey, as a workshop of AAMAS 2015.

The conference will take place in the Istanbul Congress Center, Turkey.  
More information regarding the venue can be found at the conference website at <http://www.aamas2015.com/en/CONFERENCE-VENUE.html>

## Additional Information and Submission Details

Submissions must be original and not published elsewhere. Authors are encouraged to submit papers up to 8 pages following the AAMAS 2015 format, specified in the Formatting Instructions section in <http://www.aamas2015.com/en/Submission-Instructions.html>

Authors should submit their articles in a single pdf file in the submission website - <https://easychair.org/conferences/?conf=a2hc2015> no later than February 11, 2015.  
Each submission will be reviewed by at least three Program Committee members. The reviewing process will be double-blind, so authors should omit their names and affiliations from the submitted papers, and take reasonable care to assure anonymity during the review process.

Notification of acceptance will be sent by March 10, 2015 and the camera-ready version of the papers revised according to the reviewers comments should be submitted by March 19, 2015.

Workshop notes including all accepted papers will be distributed to AAMAS 2015 registrants in electronic form. Printed workshop notes will NOT be made available to workshop participants.

## Program Committee

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## **Organizing Committee**

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