



## Fifth Workshop of Hybrid Intelligent Systems at MICAI-2012

Hybrid Artificial Intelligent Systems try to deal with the complexity of real world phenomena, with a multidisciplinary approach and a plurality of techniques. The complex systems where they are applied cover biology, medicine, logistics, management, engineering, humanities... all characterized by the difficulty of modelling their usual problems by classical methods. In this framework, this special session is aimed at discussing research on working with social interactions, by using agents or any artificial intelligence technique. Therefore, it will focus on social simulation and dynamic social network systems. It also covers the Hybrid Systems with the capability to hold a negotiation about a topic, demonstrate reputation using diverse models, together with argumentation procedures as a way for reaching agreements during the negotiation process.

### **Chair/Co-Chair**

José Martínez Flores – Instituto Tecnológico de Ciudad Madero (chair).  
Laura Cruz Reyes – Instituto Tecnológico de Ciudad Madero (co-chair).  
Alberto Ochoa O. Zezzatti – Universidad Autónoma de Ciudad Juárez (co-chair).  
Ma. De Lourdes Margain Fuentes – Universidad Politécnica de Aguascalientes (co-chair).  
Homero Vladimir Ríos Figueroa – Universidad Veracruzana (co-chair).  
Claudia Gómez Santillán – Instituto Tecnológico de Ciudad Madero (co-chair).

### **Program Committee**

José Martínez Flores – Instituto Tecnológico de Ciudad Madero.  
Alberto Ochoa O. Zezzatti – Universidad Autónoma de Ciudad Juárez.  
Laura Cruz Reyes – Instituto Tecnológico de Ciudad Madero.  
Ma. de Lourdes Margain Fuentes – Universidad Politécnica de Aguascalientes.  
Homero Vladimir Ríos Figueroa – Universidad Veracruzana.  
Claudia Gómez Santillán – Instituto Tecnológico de Ciudad Madero.  
Joaquín Pérez Ortega – Centro Nacional de Investigación y Desarrollo Tecnológico.  
Gregorio Toscano Pulido – Cinvestav Unidad Tamaulipas.  
María Lucila Morales Rodríguez – Instituto Tecnológico de Ciudad Madero.

### **Topics**

Session encouraged topics include, but are not limited to:

- Social Networks in HAIS.
- HIS for Argumentation and Negotiation.
- Agent-Based Social Simulation, specially using Soft Computing Techniques.
- Theoretical Approaches with Social Network Analysis (e.g. Studies on Blogosphere and Virtual Communities).
- Applications on Virtual Social Networks (Web 2.0, P2P, Orkut, Myspace).
- Virtual and Intelligent Games based on Artificial Societies (like RPGs).
- Social Data Mining.
- Artificial Societies and Social Simulation.
- Other application domains: Blogs, Cultural Aspects, Web Fan Clubs, Topic Communities, Opinion Dynamics, Diffusion Networks, Consumer Behavior.

## Contributions

Original contributions are sought in the area of the topics covered by this Workshop. All submissions will be refereed by experts on the field based in originality, significance, quality and clarity. Every submitted paper to this Workshop will be reviewed by at least two members of the Program Committee.

Papers must be prepared according to the LNCS-LNAI style template (only MS-WORD format) (see: <http://www.springer.de/comp/lncs/authors.html>) and the length should be no longer than 8 pages including figures and bibliography.

All papers of this Workshop will be published in the journal RCS (ISSN) and/or a book with ISBN.

NOTICE: At least one author of each accepted paper must register in order for the paper to be included in the Proceedings.

## Submission Details

In order to submit a paper electronically, authors must send an e-mail with the subject: "HIS12 Submission" to José Martínez Flores ([jose.mtz@itcm.edu.mx](mailto:jose.mtz@itcm.edu.mx)) or Alberto Ochoa O. Zezzatti ([alberto.ochoa@uacj.mx](mailto:alberto.ochoa@uacj.mx)). The paper, in PDF format, has to be attached and the body of the message should contain the following data:

Paper title.

Authors' names and affiliations.

Postal address, e-mail address and phone number of the contact authors.

The abstract of the paper.

Up to five keywords.

Please contact any of the workshop organizers in case you have problems with electronic submissions.

## Registration

In order to send the registration follow the directions on <http://www.micai.org/2012/>. In the registration field "Paper Number" type **paper\_no**, look for in **Accepted Papers**.

In case you have problems with the registration, please contact:

Dr. José Martínez Flores ([jose.mtz@itcm.edu.mx](mailto:jose.mtz@itcm.edu.mx))

Dr. Alberto Ochoa O. Zezzatti ([alberto.ochoa@uacj.mx](mailto:alberto.ochoa@uacj.mx)).

## Length of the Workshop

29th of October 2012, 6 Hours (1 Day).

## Important Dates

Proposal submission:	August, 31
Notification of acceptance:	September, 15
Camera-ready manuscripts:	September, 21