

Special Session on

Computational Collective Intelligence and Its Applications

HIS2011

Under the framework of the IEEE International Conference on Hybrid Intelligent Systems

December 5 – 8, 2011, Malacca, MALAYSIA

Conference web page: <http://www.mirlabs.org/his11/index.html>

Session Chairs

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Aim and Scope

The world is moving ahead fast technologically, however, we need to retain the human element and human control over computer and artificial intelligence systems. A collective intelligence consists of a large number of quasi-independent, stochastic agents, interacting locally both among them as well as with an active environment, in the absence of hierarchical organization, and yet which is capable of adaptive behavior. Collective Intelligence is dealt with an important issue: how new communications technologies are changing the way people work together. Collective intelligence is a perspective that can be applied to many different kinds of phenomena. The aim of this special session is to provide an internationally respected forum for scientific research in the computer-based methods of collective intelligence, semantic web, and social network domains.

The topics of particular interest to the session include but are not limited to:

- Collective Intelligence
- Computational Intelligence
- Agent Theory and its Applications
- Data Mining for Social Networks
- Distributed Intelligence
- Theory, Applications, New Trends, Challenges of Social Networks
- Intelligent Hybrid Systems and Applications
- Web-based Systems
- Collective Robotics and Human/Robot Interaction
- Biometrics and Bioinformatics
- Computer Graphics and Vision
- Cybernetics for Informatics

- Distributed Intelligent Systems
- Evolutionary Computing
- Hybrid Intelligent Systems
- Fuzzy Systems
- Information Theory
- Intelligent Architectures, Building, Control, Transportation Systems, and Applications
- Intelligent Image Processing, E-learning/tutoring, and Networks
- Logic, Knowledge Representation and Knowledge-Based Systems
- Machine Learning
- Mobile Computing
- Natural Language Processing
- Optimization and Swarm Intelligence
- Data Mining with Swarm Intelligence
- Pattern Recognition
- Probabilistic and Uncertain Reasoning
- Web Mining
- Smart Sensor Networks and Smart Living Technology
- Soft Computing
- Ubiquitous Computing and its Applications
- Web Intelligence and Interaction
- Other Related Topics

Instructions for Authors:

Papers must correspond to the requirements detailed in the (Paper Submission) on the URL of the conference: <http://www.mirlabs.org/his11/index.html>.

The HIS 2011 Proceedings will be included in the IEEE Xplore digital library. Before publishing your final work at IEL, we need your kind help to ensure the availability and the compatibility of your camera-ready paper.

Registration Fees:

All papers must be presented by one of the authors, who must pay the registration fees. <http://www.mirlabs.org/his11/index.html>

Paper Reviewing and Publication

Submitted papers will be reviewed. Accepted papers, which should not exceed 6 pages (PDF) following the double column IEEE format. All accepted papers will be published in the proceedings of the IEEE-HIS2011. Selected papers will be published in special issues of a selection of International Journal of Sensor Networks and Data Communications (IJSNDC): (<http://www.ashdin.com/journals/ijsndc/ijsndc.aspx>).

Tentative Dates of Submission and Acceptance

Deadline for Paper Submission: July 1, 2011

Notification for Acceptance: August 15, 2011

Camera ready submission and author registration: October 10, 2011

Conference: December 5-8, 2011