

## 2<sup>nd</sup> International Workshop on Collective Evolutionary Systems

IWCES-10

March 23-26, 2010

Kyushu Sangyo University, Fukuoka, Japan

in conjunction with

[ICCSA 2010 http://www.iccsa.org/](http://www.iccsa.org/)

### Proceedings

Papers accepted to IWCES-10 will be published in the ICCSA Conference proceedings in Springer-Verlag Lecture Notes in Computer Science (LNCS) series.

An extended version of selected IWCES-10 papers will be invited and published as book chapter in a book of the [Springer Verlag Series "Studies in Computational Intelligence"](#).

"Studies in Computational Intelligence" is indexed by DBLP, Ulrichs, SCOPUS, MathSciNet, Current Mathematical Publications, Mathematical Reviews, Zentralblatt Math: MetaPress and Springerlink.

### Important Dates:

- Paper Submission deadline: December 15, 2009 (EXTENDED)
- Acceptance notification: December 30, 2009
- Camera-ready due: January 11, 2010
- March 23-26, 2010: ICCSA'10 conference-IWCES10 Worskhop in Fukuoka, Japan

### Scope/Topics (not limited to)

- \* evolutionary models for collective systems
- \* data mining and knowledge discovery in collective systems
- \* interactive knowledge management models
- \* temporal and evolutionary behavior models
- \* emergent collective behavior, organization behavior
- \* evolutionary social networks
- \* adaptive search engines
- \* collective social tagging
- \* adaptive reputation and recommendation systems
- \* collective translation systems
- \* interactive multimedia classification system
- \* grid intelligence dynamics
- \* ubiquitous and mobile collective systems
- \* data visualization for collective systems
- \* security and privacy issue for collective systems
- \* virtual agent and hybrid agent collective systems
- \* integration and composition of virtual organization
- \* learning in collective environment

### Workshop Chairs

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## **Overview**

Collective evolutionary systems are virtual organizations where distributed users (either individuals, organizations or software entities) act and interact thru a common virtual environment which they can modify by adding contents and relationships. A relevant feature of collective evolutionary systems is that the virtual environment monitors the users actions and allow the users to share at a certain extent information about their activities, while the composition of the user community as well as user behaviors and interests dynamically evolve over the time.

Examples of such organization range from e-business marketplaces, auctions, stock exchange and e-commerce systems, to social networks and interactive content management systems ( blogs, discussion forum, news feed, QA systems, wiki etc.), from e-learning and grid computing communities, to search engines and advertising management systems.

There is an increasing interest in understanding the emergent collective behavior of such systems and in extracting and mining the collective knowledge which is continuously produced, either implicitly or explicitly, by the user community and collected by the system monitoring activity. Collective knowledge reflects in a natural way the dynamic evolution of user behaviors, tastes, interests, goals and views. It can be used to extract valuable information about the user communities and to adapt and improve the effectiveness of services and applications (e.g. adaptive search engines, automatic reputation and recommendation systems, collective tagging, forecasting user behavior etc.).

The aim of the workshop is to provide a discussion forum and to solicit quality papers describing systems, techniques and models for managing the inherent and emergent evolutionary dynamics of collective virtual organizations and for analyzing and mining the related collective knowledge focusing on temporal dynamics and adaptivity.

## **Submissions and Author Guidelines**

We invite you to submit a paper of 8-12 pages (theme paper) formatted in Lecture Notes in Computer Science (LNCS) Springer style. For templates of the paper please consult [author instructions](#) from the conference web page (<http://www.iccsa.org/author-instructions>). The submission must be camera-ready and formatted according to the rules of LNCS. Electronic submissions in PS, PDF, or LaTeX (please also submit all .eps, .dvi, and .ps files). MS Word submissions will also be accepted. Please submit your paper through the CyberChair electronic submission system, available at <http://cyb10.iccsa.org>. During submission you will be asked to submit your abstract to the CyberChair: please don't forget to select IWCES-10 workshop from the drop-down list of all [workshops](#).

## **Program Committee (provisional)**

- Masanori Akiyoshi (Osaka University, Japan) -Farookh K Hussain (Curtin University of Technology, Australia)
- Krassimir Markov (Institute of Mathematics and Informatics, Sofia, Bulgaria)
- Rajdeep Niyogi (Indian Institute of Technology, Roorkee, India)
- Valentina Poggioni (University of Perugia, Italy)
- Javier Soriano (Universidad Politecnica de Madrid, Spain)
- Peter Stanchev (Kettering University, USA)
- Claudia Roda (America University of Paris, FR)