

# The Fifth International Workshop on Pattern Recognition in Information Systems PRIS 2005

May 24-25, 2005 – Miami, USA

**First Announcement and Call for Papers**

**In conjunction with the Seventh International Conference on Enterprise Information Systems - ICEIS 2005** (<http://www.iceis.org/>)

In collaboration with The International Association for  
Pattern Recognition



**Chair:**

Hugo Gamboa, Escola Superior de Tecnologia de Setúbal, Portugal  
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**Workshop Background and Goals**

Huge amounts of information in digital format are currently available; for example, the world-wide-web is an immense source of text, images, video, and sound. Structuring/understanding this multimedia information is a difficult task. Accessibility issues arise in this context, with personal identification techniques playing a key role in human-machine interfaces for security and restricted-access systems. Pattern recognition (PR) and machine learning (ML) provide formal frameworks in which this class of problems can be adequately addressed. On the other hand, exploratory analysis (mining) and content-based retrieval of multimedia data serve both as important practical application domains for PR and ML techniques, and as a source of challenging research problems.

The aim of this workshop is to bring together researchers, practitioners and potential users with interests in the multidisciplinary topics listed above.

### **Areas**

Paper submissions should be related to the following areas: pattern recognition, biometrics and personal identification; vision and scene interpretation; multimedia storage and retrieval; and data mining and machine learning. Focus on applications (industrial, medical, entertainment, home media) is desirable, although new techniques and algorithms are also highly encouraged.

**Topics** of interest include, but are not limited to:

- Data mining
- Object Recognition
- Scene interpretation
- Electronic surveillance
- Human Movement identification
- Content-Based analysis and Retrieval
- Data categorization (text documents and images)
- Document analysis and classification
- Feature extraction and selection
- Learning systems and learning repositories
- Data and knowledge representation
- Human computer interaction
- User profile modelling
- Emotion detection
- Physiological signal classification
- Biomedical pattern analysis
- Biometrics and personal authentication systems

### **Techniques:**

- Classification algorithms
- Unsupervised learning
- Combination techniques
- Nonparametric methods
- Prototype-based techniques
- Structural Matching
- Neural-based pattern recognition
- Graph-based methods
- Genetic techniques
- Grammar and language methods
- Grammatical inference
- Comparative studies
- Hybrid methods

## **Format of the Workshop**

The workshop will comprise of invited talks, oral and poster presentations. The proceedings of the workshop will be published in the form of a book, with ISBN and a CD-ROM as well.

## **Invited Speakers**

J. K. Aggarwal, The University of Texas at Austin, USA  
- Presentation title: Human Activity Recognition - A Grand Challenge

José Carlos Príncipe, University of Florida, USA

## **Submission of Papers**

Prospective authors are invited to submit papers for oral presentation in any of the areas listed above. Only full papers in english will be accepted, and the length of the paper should not exceed 10 pages (5000 words). Instructions for preparing the manuscript (in Word and Latex formats) are available in the [ICEIS web page](#). Postscript/RTF versions of the manuscript should be submitted thru [ICEIS web-based paper submission procedure](#).

## **Important Dates**

Full paper submission: January 25, 2005  
Author notification: March 4, 2005  
Camera-ready paper submission: March 18, 2005

## **Workshop Program Committee**

Aditya Vailaya  
Adnan Amin  
Ana Fred  
Carlo Sansone  
Colin de la Higuera  
Enrique Vidal  
Eric Trupin  
Francesc J. Ferri  
H. Lilian Tang  
Jean-Marc OGIER  
Jorge S. Marques  
Jose M. Inesta  
Lei Zhang  
Marcello Pelillo  
Mário Figueiredo  
Mingjing Li  
Nalini Ratha  
Robert Duin

Sameer Singh  
Simone Marinai  
Tin Kam Ho

**Conference Location**

The workshop will be held at Deauville Beach Resort in Miami, USA.

**Registration Information**

To attend the workshop you need to register at <http://www.iceis.org>

**Secretariat**

ICEIS Secretariat- Workshop on Pattern Recognition in Information Systems

E-mail: [workshops@iceis.org](mailto:workshops@iceis.org)

Web site: [www.iceis.org](http://www.iceis.org)