

First Announcement and Call for Papers:

## **Workshop on Pattern Recognition in Information Systems**

April 13-14, 2004 – Porto, Portugal

In conjunction with the 6th International Conference on Enterprise Information Systems - ICEIS 2004 ([www.iceis.org](http://www.iceis.org))

In collaboration with The International Association for Pattern Recognition



### **Chair:**

Ana Fred, Instituto Superior Técnico, Lisbon, Portugal ([afred@lx.it.pt](mailto:afred@lx.it.pt))

### **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 of Interest**

Paper submissions should be related to the following areas: pattern recognition, biometrics and personal identification; 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
- Multimedia information systems
- Content-Based analysis and Retrieval
- Data categorization (text documents and images)
- Document analysis and classification
- Feature extraction and selection (for IP applications)
- Biometrics and personal authentication systems
- Learning systems and learning repositories
- Databases, and web-based information systems
- Data and knowledge representation

- Efficient and scalable learning
- Human computer interaction
- User profile modelling
- Quality assessment and performance measurement

#### 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.

### **Confirmed Invited Speakers**

- Joachim Buhmann (University of Bonn, Germany)
- Jake Aggarwal (University of Texas, USA)
- John B. Oommen (University of Carleton, Canada)

### **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: December 15, 2003

Author notification: January 30, 2004

Camera-ready: February 15, 2004

### **Workshop Program Committee**

**Aditya Vailaya**, USA

**Adnan Amin**, Australia

**Anil K. Jain**, USA  
**Aurélio Campilho**, Portugal  
**Bob Duin**, The Netherlands  
**Colin de la Higuera**, France  
**Enrique Vidal**, Spain  
**Eric Trupin**, France  
**Francesc J. Ferri**, Spain  
**H Lilian Tang**, UK  
**Hong Jiang Zhang**, China  
**Horace Ip**, Hong Kong  
**Jean-Marc Ogier**, France  
**Jianchang Mao**, USA  
**Joachim Buhmann**, Germany  
**Jorge S. Marques**, Portugal  
**Jose M. Inesta**, Spain  
**Marcello Pelillo**, Italy  
**Mário Figueiredo**, Portugal  
**Mingjing Li**, China  
**Nalini Ratha**, USA  
**Ruud Bolle**, USA  
**Sameer Singh**, UK  
**Simone Marinai**, Italy  
**Terry Caelli**, Canada  
**Tin Ho**, USA

### **Conference Location**

The workshop will be held at the Universidade Portucalense in Porto, Portugal.

### **Registration Information**

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

### **Secretariat**

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