

Workshop on Pattern Recognition in Information Systems

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Sponsored by



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Co-chairs

Ana Fred

Instituto Superior Técnico, Lisbon, Portugal
afred@lx.it.pt

Anil K. Jain

Michigan State University, USA
jain@cse.msu.edu

Program Committee:

Mohamed Abdel-Mottaleb

Philips Research, USA

Adnan Amin

Univ. of New South Wales, Australia

Josef Bigun

Halmstad University, Sweden

Gautam Biswas

Vanderbilt University, USA

Aurélio Campilho

University of Porto, Portugal

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Bell Labs, USA

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City Univ. of Hong Kong

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Inst. de Sistemas e Robótica /IST, Portugal

Maria Petrou

University of Surrey, UK

Pavel Pudil

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Aditya Vailaya

Agilent Research Lab, USA

Enrique Vidal

Polytechnic University of Valencia, Spain

Hong Jiang Zhang

Microsoft Research, China

Aim of the Workshop

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 and 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 below.

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

- Biometrics-based personal authentication systems
- Multimedia information systems
- Content-based analysis and retrieval
- Data categorization (text documents and images)
- Interfaces for retrieval
- Document recognition and retrieval
- Data and knowledge representation
- User profile modelling
- Feature extraction and selection
- Unsupervised learning
- Efficient and scalable learning
- Quality assessment and performance measurement
- Tutoring systems

Format of the Workshop

The workshop will comprise of invited talks and oral presentations. The proceedings of the workshop will be published in the form of a book. Selected papers will be published in a special issue of the Pattern Recognition Journal.

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 format) are available at the ICEIS web site (see below). Postscript/RTF versions of the manuscript should be sent electronically to the workshop secretariat (see e-mail below).

Important Dates

Full Paper Submission: **25th January 2001**

Author Notification: 15th March 2001

Final Camera-Ready Submission and Registration: 5th April 2001

Conference Location

The workshop will be held at the Escola Superior de Tecnologia of the Polytechnic Institute of Setúbal. Setúbal is located at the south bank of Tagus river, about 50 km from Lisbon.

Secretariat

ICEIS Secretariat - Workshop on Pattern Recognition in Information Systems
Rua Vale de Chaves – Estefanilha,
2914-508 Setúbal - Portugal

Fax: +351 265 721 869

Tel: +351 265 790 000

E-mail: w1-secretariat@iceis.org

Web site: <http://www.iceis.org>