

Technical Program

PRIS 2001

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

(in conjunction with ICEIS 2001)

Setúbal, July 6,7  
Portugal

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## **WORKSHOP CO-CHAIRS**

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

Anil K. Jain, Michigan State University, USA ([jain@cse.msu.edu](mailto:jain@cse.msu.edu))

## **PROGRAM COMMITTEE**

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Mohamed Abdel-Mottaleb, Philips Research, USA

Adnan Amin, University of New South Wales, Australia

Josef Bigun, Halmstad University, Sweden

Gautam Biswas, Vanderbilt University, USA

Aurélio Campilho, University of Porto, Portugal

Mário Figueiredo, Instituto Superior Técnico, Portugal

Bilge Günsel, TUBITAK Marmara Research Center, Turkey

Tin Ho, Bell Labs, USA

Horace Ip, City University of Honk Kong, China

Jianchang Mao, Verity Inc., USA

Jorge S. Marques, Instituto de Sistemas e Robótica /IST, Portugal

Maria Petrou, University of Surrey, UK

Pavel Pudil, Academy of Science, Czech Republic

Jianzhong Qian, Siemens Research, USA

Nalini Ratha, IBM Watson Research Lab, USA

Aditya Vailaya, Agilent Research Lab, USA

Enrique Vidal, Polytechnic University of Valencia, Spain

Hong Jiang Zhang, Microsoft Research, China

## **INVITED SPEAKERS**

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Ruud Bolle, IBM T.J. Watson Research Center, USA

Pavel Brazdil, University of Porto, Portugal

Hong Jiang Zhang, Microsoft Research, China

## **LOCAL COMMITTEE**

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José Cordeiro, EST-Setúbal, Portugal

Nuno Pina, EST-Setúbal, Portugal

Sara Silva, EST-Setúbal, Portugal

## **SPONSORED BY**

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The International Association for Pattern Recognition

## **VENUE**

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Escola Superior de Tecnologia de Setúbal.

Campus IPS - ESCE - Lecture Theatre 1 (see map on page 12).

## **SECRETARIAT**

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ICEIS Secretariat

Escola Superior de Tecnologia de Setúbal / Campus IPS  
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email: [w1-secretariat@iceis.org](mailto:w1-secretariat@iceis.org)

<http://www.iceis.org/workshops/pris>

## **REGISTRATION**

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Thursday, July 5, from 17:00 to 19:00. Friday, July 6, from 8:00 to 9:00.

The Welcome Desk will be open on all days of the conference.

## **MEALS**

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Lunches will be served to all registered participants in the restaurant at the campus, from 12:30 to 14:00.

## **TRANSPORTATION IN SETÚBAL**

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Conference buses will transport all registered participants from hotel to Campus in the morning and from Campus to hotel in the evening.

## **COMMUNICATIONS**

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There will be a computers room with Internet access available for all the registered participants.

## **SOCIAL PROGRAM**

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There will be a workshops banquet on Friday, the 6th of July, bringing together all the workshops participants, at Pousada of the Castle of Palmela. There will be a tour to Serra da Arrábida (a mountain near Setúbal) for a panoramic view of Setúbal and Tróia, on the way to the workshops banquet.

|       | <b>Friday - July 6</b>                                     | <b>Saturday - July 7</b>           |
|-------|--|------------------------------------|
| 8:00  | Welcome Desk   |                                    |
| 8:45  | <b>Opening</b>   |                                    |
| 9:00  | Invited Talk<br>Hong Jiang Zhang                           | Invited Talk<br>Pavel Brazdil      |
| 10:00 | Session 1<br>Video and Authentication<br>Systems           | Session 5<br>Unsupervised Learning |
| 10:50 | Coffee - Break   | Coffee - Break                     |
| 11:15 | Session 2<br>Image Classification and<br>Retrieval         | Session 6<br>Document Analysis     |
| 12:30 | Lunch  | <b>Closing</b>                     |
|       |  | Lunch                              |
| 14:00 | Invited Talk<br>Ruud Bolle                                 | Buses to hotels                    |
| 15:00 | Session 3<br>Face Recognition                              |                                    |
| 15:50 | Coffee - Break   |                                    |
| 16:10 | Session 4<br>Pattern Recognition                           |                                    |
| 17:50 | Buses to hotels  |                                    |
| 19:30 | Buses from hotels to<br>sightseeing and workshop<br>dinner | ICEIS Welcome Reception            |
|       |  |                                    |

## JULY 6 - FRIDAY

### 8:45 OPENING

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### 9:00 INVITED TALK

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#### RELEVANCE FEEDBACK IN CONTENT-BASED IMAGE SEARCH

*HONG JIANG ZHANG*

### SESSION 1: VIDEO AND AUTHENTICATION SYSTEMS

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#### 10:00 AUTOMATIC TV ADVERTISEMENT DETECTION FROM MPEG BITSTREAM

*D. A. SADLIER, S. MARLOW, N. O'CONNOR, N. MURPHY*

#### 10:25 A SPATIAL METHOD FOR WATERMARKING OF FINGERPRINT IMAGES

*U. ULUDAG, B. GUNSEL, M. BALLAN*

### 10:50 COFFEE-BREAK

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### SESSION 2: IMAGE CLASSIFICATION AND RETRIEVAL

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#### 11:15 IMAGE RETRIEVAL VIA ISOTROPIC AND ANISOTROPIC MAPPINGS

*Q. IQBAL, J. K. AGGARWAL*

#### 11:40 IMPROVING THE ROBUSTNESS OF PARAMETRIC SHAPE TRACKING WITH SWITCHED MULTIPLE MODELS

*J. NASCIMENTO, J. S. MARQUES*

#### 12:05 AUTOMATIC RURAL ROAD EXTRACTION FROM SETS OF CONNECTED EDGE POINTS

*H. OLIVEIRA, J. J. CAEIRO*

### 12:30 LUNCH

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## **14:00 INVITED TALK**

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### **AUTOMATED BIOMETRICS: SECURITY AND PRIVACY**

*RUUD BOLLE, N. K. RATHA, J. H. CONNELL*

## **SESSION 3: FACE RECOGNITION**

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### **15:00 LOCAL REPRESENTATIONS AND A DIRECT VOTING SCHEME FOR FACE RECOGNITION**

*R. PAREDES, J. C. PÉREZ, A. JUAN, E. VIDAL*

### **15:25 RIDGES, VALLEYS AND HAUSDORFF BASED SIMILARITY MEASURES FOR FACE DESCRIPTION AND MATCHING**

*A. PUJOL, A. LOPEZ, J. L. ALBA, J. J. VILLANUEVA*

## **15:50 COFFEE-BREAK**

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## **SESSION 4: PATTERN RECOGNITION**

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### **16:10 FEATURE SELECTION TOOLBOX AS A MULTI-PURPOSE TOOL IN PATTERN RECOGNITION**

*P. SOMOL, P. PUDIL*

### **16:35 DISTANCE BIAS ADJUSTMENT BOOTSTRAP ESTIMATION FOR BHATTACHARYYA ERROR BOUND IN CLASSIFIERS**

*B. J. OOMMEN, Q. WANG*

### **17:00 ON THE USE OF BERNOULLI MIXTURE MODELS FOR TEXT CLASSIFICATION**

*A. JUAN, E. VIDAL*

### **17:25 HIERARCHICAL CLASSIFIERS BASED ON NEIGHBOURHOOD CRITERIA WITH ADAPTIVE COMPUTATIONAL COST**

*C. RODRÍGUEZ, I. SORALUZE, J. MUGERZA, J. I. MARTÍN, G. ÁLVAREZ*

## **17:50 BUSES TO HOTELS**

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## **19:30 BUSES FROM HOTELS TO ARRABIDA, FOLLOWED BY DINNER AT PALMELA'S CASTLE**

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## **JULY 7 - SATURDAY**

### **9:00 INVITED TALK**

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**RANKING CLASSIFICATION ALGORITHMS AND COMBINATIONS OF METHODS**  
*PAVEL BRAZDIL*

### **SESSION 5: UNSUPERVISED LEARNING**

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**10:00 HIERARCHICAL WORD CLUSTERING FOR RELEVANCE JUDGMENTS IN INFORMATION RETRIEVAL**  
*N. BASSIOU, C. KOTROPOULOS, I. PITAS*

**10:25 DOCUMENT ORGANIZATION AND RETRIEVAL USING SOMS AND STATISTICAL LANGUAGE MODELING**  
*A. GEORGAKIS, C. KOTROPOULOS, A. XAFOPOULOS, I. PITAS*

### **10:50 COFFEE - BREAK**

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### **SESSION 6: DOCUMENT ANALYSIS**

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**11:15 CONTENT-BASED CLASSIFICATION OF DIGITAL DOCUMENTS**  
*R. SCETTINI, C. BRAMBILLA, A. VALSASNA, M. DE PONTI*

**11:40 PAGE SEGMENTATION OF CHINESE NEWSPAPER**  
*J. XI, J. HU, L. WU*

**12:05 AUTOMATED RETRIEVAL OF TABLES FROM PRINTED DOCUMENTS**  
*S. MITRA*

### **12:30 CLOSING**

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### **12:40 LUNCH**

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### **14:00 BUSES TO HOTELS**

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### **19:30 ICEIS WELCOME RECEPTION**

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## NOTES

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FIGURE 1: HOW TO REACH THE CAMPUS OF IPS

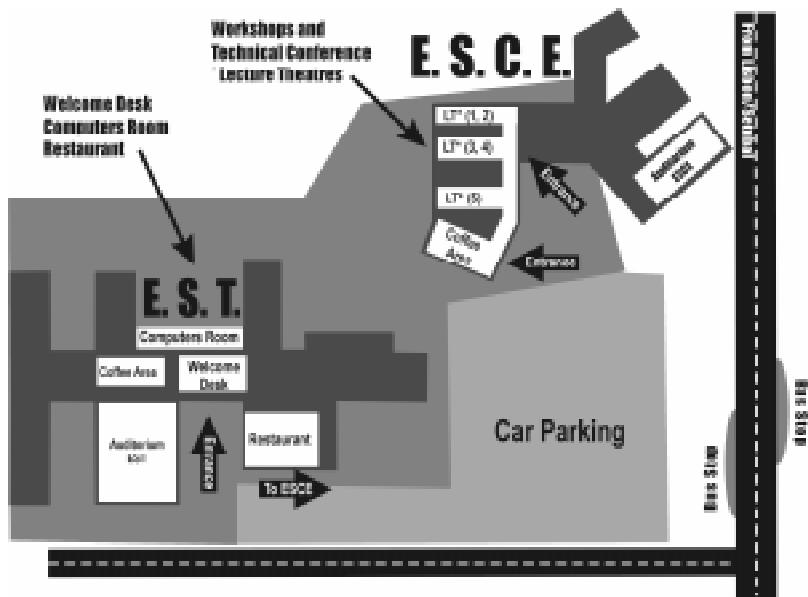


FIGURE 2: CONFERENCE SITE MAP