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Image Analysis and Processing – ICIAP 2005

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Preface

This volume contains the Proceedings of the 13th International Conference on Image Analysis and Processing (ICIAP 2005), held in Cagliari, Italy, at the conference centre “Centro della Cultura e dei Congressi”, on September 6–8, 2005.

ICIAP 2005 was the thirteenth edition of a series of conferences organized every two years by the Italian group of researchers affiliated to the International Association for Pattern Recognition (GIRPR) with the aim to bring together researchers in image processing and pattern recognition from around the world. As for the previous editions, conference topics concerned the theory of image analysis and processing and its classical and Internet-driven applications.

The central theme of ICIAP 2005 was “Pattern Recognition in the Internet and Mobile Communications Era”. The interest for such a theme was confirmed by the large number of papers dealing with it, the special session devoted to pattern recognition for computer network security, and the emphasis of two invited talks on Internet and mobile communication issues.

ICIAP 2005 received 217 paper submissions. Fifteen papers were collected into the two special sessions dealing with *Pattern Recognition for Computer Network Security* and *Computer Vision for Augmented Reality and Augmented Environments*.

The 143 papers selected by the Scientific Committee were organized into 10 oral sessions (38 papers), eight regular sessions and two special sessions, and three poster sessions (105 papers). In order to make the poster sessions the liveliest parts of the conference, this edition of ICIAP introduced a new type of presentation, namely “spotlight” presentations of the best papers selected for the poster sessions. Thirty-two poster papers out of 105 were presented in this form immediately before the related poster sessions.

The workshop program and this volume were enriched with the five invited talks, given by Horst Bunke (University of Bern, Switzerland), Giovanni Garibotto (Elsag, Italy), Anil K. Jain (Michigan State University, USA), Josef Kittler (University of Surrey, UK), and George Nagy (Rensselaer Polytechnic Institute, USA).

This edition of ICIAP also offered two tutorials, on *Computer Vision for Intelligent Vehicles* and *Biometric Systems*.

As for the previous editions, the best paper by a young author was selected by an international committee, and it was awarded the Caianiello Prize, in honor of Prof. Eduardo R. Caianiello, during the conference.

We wish to thank the Italian group of researchers affiliated to the International Association for Pattern Recognition (GIRPR) which gave us the possibility to organize this conference. We wish to express our appreciation to all those who helped to organize ICIAP 2005. First of all, we would like to thank all the

members of the Scientific Committee whose professionalism was instrumental in creating a very interesting technical programme. We also wish to thank Andrea Fusiello, Vittorio Murino, and Carlo Sansone who organized the two special sessions, Alberto Broggi, Raffaele Cappelli, and Giorgio Giacinto and Giorgio Fumera who served as tutorial and special session organizers.

It would have been impossible to organize the conference without the financial and technical support of the University of Cagliari and the Department of Electrical and Electronic Engineering, and both forms of support are gratefully acknowledged. We thank the International Association for Pattern Recognition and its Technical Committee TC1 on Statistical Pattern Recognition Techniques for sponsoring ICIAP 2005. We also wish to thank the Italian companies listed in the following pages for providing important financial support. Special thanks are due to the members of the Local Organizing Committee, Giorgio Giacinto, Roberto Perdisci, and Roberto Tronci, for their indispensable contributions to the Web site management, local organization, and proceedings preparation.

June 2005

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