

PREFACE

We are honored and pleased to present the proceedings of the 1st Ibero-American Symposium in Computer Graphics (SIACG 2002), held in Guimarães.

This conference was very special since it marked the first actual attempt to join the Computer Graphics communities in both the Iberian Peninsula and Latin America. It is expected that a series of similar events can follow this symposium in the next years and alternating the local between Europe and South America.

SIACG 2002 has provided a valuable forum for the discussion on technology and scientific aspects related to Computer Graphics. We hope that it will promote co-operation through joint projects in the near future as well as the interchange of people from different countries.

All papers were submitted electronically and reviewed for their contents by qualified and independent reviewers. The International Programme Committee selected a total of 36 full papers out of 61 contributions. They have been written in English, although presentations could be delivered in Portuguese, Spanish or English. In addition to research papers, nearly one third of the accepted submissions can be classified as practice and experience papers.

A different way to measure the impact of the symposium is by observing that the papers included in these proceedings were prepared by authors from 10 different countries.

Additionally, in a companion publication to the proceedings one can find a set of refereed short papers. This written material has provided the opportunity for most participants to present new ideas and promising work in progress yet at a more or less embryonic stage.

Many people deserve credit for helping in the genesis of the symposium and their work must be referred in the conference proceedings. We would like to express our sincere thanks to all members of the International Programme Committee and to the invited reviewers for their great effort to get all the papers reviewed in time.

We also thank the invited speakers Markus Gross, Eugene Fiume and Gabriel Taubin, and express our gratitude to the Organizing Committee for the work done in organizing this conference in Guimarães.

However, since the quality of any conference cannot be dissociated from the quality of the corresponding submissions, our best thanks go to the authors who contributed with their valuable papers and made this conference an undeniable success.

Xavier Pueyo, Manuel Próspero dos Santos & Luiz Velho
International Programme Committee Co-chairs

Local Organizers Foreword

The 1st Ibero-American Symposium in Computer Graphics (SIACG) aims at becoming the first in a series of similar events organised every year, alternating between Europe and South America. Its mission is to foster transatlantic co-operation through the exchange of scholars, ideas, information and participation in joint projects between Computer Graphics communities in the Iberian Peninsula and Latin America.

The local organization of this year's event has been assumed by the Computer Graphics Center (CCG) of the University of Minho. This represents an important step in the process of CCG's establishment in the Minho Region as a novel R&D Interface institute of the University of Minho while promoting Computer Graphics locally in close cooperation with INI-GraphicsNet - the largest world-wide network of R&D institutions in Computer Graphics and Applications. This framework justifies the decision to complement the scientific and technical programme with an Industry Forum, therefore to stimulate a lively debate about the potentialities of Computer Graphics in different industrial sectors. By bringing together the leading people from the industry, user communities and academia, the forum will allow them to discuss good practices, current and future challenges and opportunities for practical applications of Computer Graphics, which has matured into a transversal application area. The Forum includes a special session assumed by the Portuguese Agency for Innovation in collaboration with the European Commission – DGXIII and the @Lis Program with the aim to widely disseminate existing opportunities in Industrial R&D involving teams in Portugal, Spain and Latin America.

This year's Symposium put together also other important events, in parallel to the technical and scientific programme, such as an Exhibition Fair, Lab Presentations and the Alfa Open Workshop. SIACG is held in the Campus of the University of Minho in the beautiful city of Guimarães – the first Portugal's capital city where the country was born nine centuries ago. Its historic, artistic and monumental treasures have been recently recognised by UNESCO as World Heritage, which constitutes a unique place to visit and enjoy.

We should mention here the dedicated effort of many people that have made possible the local set up of SIACG. First we thank Joaquim Jorge for his personal encouragement and precious help in designing and implementing the various events included in SIACG. Second, we would like to thank all the CCG staff and student volunteers who spent many days (and sometimes also nights) to make sure the organization ran smoothly. Third, we thank the chairs of the SIACG committees specially Manuel Próspero dos Santos, Augusto Sousa and Miguel Dias for their suggestions, ideas and concrete support in providing information, contacts and proofreading texts.

Finally, we would like to send a special thanks to the School of Engineering and the Department of Information Systems of the University of Minho for the rooms, mailing and other facilities made available to the Organization of SIACG 2002 as well as all the sponsoring institutions for their support. Without their effective cooperation and active support SIACG 2002 would not be a reality.

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