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Nicholas Ayache (Ed.)

Computer Vision, Virtual Reality and Robotics in Medicine

First International Conference, CVRMed '95
Nice, France, April 3-6, 1995
Proceedings

With Numerous Halftones and 9 Pages in Colour



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Preface

This book contains the written contributions to the program of the First International Conference on Computer Vision, Virtual Reality, and Robotics in Medicine (CVRMed'95) held in Nice during the period April 3-6, 1995.

The articles are regrouped into a number of thematic sessions which cover the three major topics of the field: medical image understanding, registration problems in medicine, and therapy planning, simulation and control.

The objective of the conference is not only to present the most innovative and promising research work but also to highlight research trends and to foster dialogues and debates among participants.

This event was decided after a preliminary successful symposium organized in Stanford in March 1994 by E. Grimson (MIT), T. Kanade (CMU), R. Kikinis and W. Wells (Chair) (both at Harvard Medical School and Brigham and Women's Hospital), and myself (INRIA).

We received 92 submitted full papers, and each one was evaluated by at least three members of the Program Committee, with the help of auxiliary reviewers. Based on these evaluations, a representative subset of the Program Committee met to select 19 long papers, 29 regular papers, and 27 posters.

The geographical repartition of the contributions is the following: 24 from European countries (other than France), 23 contributions from France, 20 from Northern America (USA and Canada), and 8 from Asia (Japan and Singapore).

All contributions are presented in a single track, leaving time for two poster sessions, a panel discussion, and a technical tour in Sophia-Antipolis. A number of stands are reserved for industrial exhibitions and research demonstrations.

This conference promises to be an exciting event based upon such a fascinating new research field.

Sophia-Antipolis, January 1995

Nicholas Ayache

CVRMed'95: a special acronym: the letters of this acronym share a double meaning: *C* for Conference and Computer, *V* for Vision and Virtual, *R* for Reality and Robotics, and *Med* for Medicine and ... Mediterranean. It might be hard to preserve this last *Nice* property in the future!

Acknowledgement

The members of the program committee deserve special acknowledgements for their superb job in reviewing all the papers in due time, and for their support in the organisation of the conference. This acknowledgment applies also to the auxiliary reviewers.

We want to acknowledge the outstanding work of Grégoire Malandain, who was in charge of the scientific coordination of this conference, in particular for the reviewing process and the compilation of the book, and whose help remains inestimable.

Special thanks are due to Monique Simonetti for her wonderful work at local arrangements with the assistance of the “Bureau des Colloques” of INRIA, and also to Jean-Philippe Thirion who (besides his role in the Program Committee) played a crucial role in the original setting and planning of this conference.

Finally, we wish to thank Françoise Pezé and Sandrine Chevrin for their help in the mailing work, and Catherine Martin for her help in organizing the Program Committee meeting.

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