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International Joint Conference, VISIGRAPP 2010
Angers, France, May 17-21, 2010
Revised Selected Papers

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Preface

This book includes extended versions of the selected papers from VISIGRAPP 2010, the International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications, which was held in Angers, France, May 17–21, 2010 and organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), and hosted by the University of Angers, ISTIA and LISA, with the technical co-sponsorship of WfMC. VISIGRAPP comprises four component conferences, namely, the International Conference on Computer Vision Theory and Applications (VISAPP), the International Conference on Computer Graphics Theory and Applications (GRAPP), the International Conference on Imaging Theory and Applications (IMAGAPP), and the International Conference on Information Visualization Theory and Applications.

VISIGRAPP received a total of 405 paper submissions from more than 50 countries. After a rigorous double-blind evaluation, only 57 papers were accepted and published as full papers. These numbers clearly show that this conference is aiming at high-quality standards and is now an established venue for researchers on the broad fields of computer vision, computer graphics, image analysis and information visualization. From the set of full papers, 19 were selected for inclusion in this book. The selection process was based on quantitative and qualitative evaluation results provided by the Program Committee reviewers as well as the feedback on paper presentations provided by the session chairs during the conference. After selection, the accepted papers were further revised and extended by the authors. Our gratitude goes to all contributors and referees, without whom this book would not have been possible.

VISIGRAPP 2010 included four invited keynote lectures, presented by internationally renowned researchers, whom we would like to thank for their contribution to reinforcing the overall quality of the conference, namely, in alphabetical order: Brian A. Barsky (University of California, Berkeley, USA), Gabriela Csurka (Xerox Research Centre Europe, France), Pascal Fua (École Polytechnique Fédérale de Lausanne, Switzerland) and Ali Mohammad-Djafari (Centre National de la Recherche Scientifique (CNRS), France).

We wish to thank all those who supported VISIGRAPP and helped to organize the conference. In particular we acknowledge the collaboration received from Eurographics. On behalf of the conference Organizing Committee, we would like to especially thank the authors, whose work was the essential part of the conference and contributed to a very successful event. We would also like to thank the members of the Program Committee, whose expertise and diligence were

instrumental in ensuring the quality of the final contributions. In addition, we wish to thank all the members of the Organizing Committee, especially Bruno Encarnação, whose work and commitment was invaluable. Last but not least, we would like to thank Springer for their collaboration in getting this book to print.

December 2010

Paul Richard
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Pascal Fua	École Polytechnique Fédérale de Lausanne, Switzerland
Gabriela Csurka	Xerox Research Centre Europe, France

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