

# Preface

This book presents novel and cutting-edge topics in Advances of Shape Analysis in Medical Image Analysis in order to solidify knowledge in the related fields and define their key stakeholders.

The 13 chapters included in this book were written by invited experts of international recognition and address important issues in shape analysis in medical image analysis, including: techniques for image segmentation, registration, modelling and classification and applications in biology, cardiac, brain, spine, chest, lung, and clinical practice.

The book covers the most recent advances in this area. Therefore, this book is of crucial effectiveness for researchers, students, end-users, and manufacturers from several multidisciplinary fields, as the ones related with artificial intelligence, bioengineering, biomechanics, computational mechanics, computational vision, computer sciences, human motion, mathematics, medical imaging, imaging-based intervention, medicine, pattern recognition, and physics.

The editors would like to take this opportunity to thank all invited authors for sharing their works, experiences, and knowledge, making possible their dissemination through this book.

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