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# ***13th International Conference on Medical Information Processing and Analysis***

**Eduardo Romero  
Natasha Lepore  
Jorge Brieva  
Juan David García**  
*Editors*

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## Introduction

The papers in this volume were part of those presented and submitted to the 13th International Symposium on Medical Information Processing and Analysis - SIPAIM 2017. The event, held for the first time in San Andres Islands, Colombia, has evolved from a small meeting to an international symposium in which researchers from Latin America meet and interact with each other and with their peers from around the world.

SIPAIM is mainly focused on bringing together the Latin American medical image analysis and information processing communities and on creating a forum in which to discuss recent results, ongoing research, and future projects and collaborations. SIPAIM is addressed to researchers, students and professionals in a wide range of disciplines including engineering, physics, mathematics, computer science, biology, and health sciences. This year's meeting included keynote lectures by five internationally recognized experts in digital histopathology, magnetic resonance imaging, computational anatomy, and geometrical and statistical pattern recognition.

Of the 74 papers submitted this year, 57 were accepted for oral presentations after being reviewed by at least three experts in the area. The wide array of subjects, ranging from digital pathology to gait analysis and from e-health to fetal and pediatric brain imaging, bears witness to the growing importance of medical and biomedical research among the region's researchers, and points to many opportunities for international collaborations.

The editors would like to thank the authors, reviewers and committee members, without whom the present volume would not have been possible. Likewise, we would like to thank SPIE whose support has improved the quality and visibility of the SIPAIM proceedings year after year. Finally, for the first time this year, we were also sponsored by the MICCAI society, and would like to thank them for their help in publicizing the conference.

**Eduardo Romero**  
**Natasha Lepore**  
**Jorge Brieva**  
**Juan David García**

