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**Eduardo Romero
Natasha Lepore
Jorge Brieva**
Editors

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Introduction

The papers in this volume were part of those submitted to the 15th International Symposium on Medical Information Processing and Analysis (SIPAIM 2019). The event, which was held in Medellín, Colombia, has evolved from a small meeting to an international symposium in which researchers from Latin America interact with each other and with their peers from around the world.

SIPAIM is 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, both within Latin America, and with researchers around the world. 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 was to include keynote lectures by four recognized experts in pattern recognition, image analysis, data mining, magnetic resonance imaging, and clinical pathology.

We had 47 papers accepted for oral presentations this year after being reviewed by 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 role as cosponsor has improved the quality and visibility of the SIPAIM proceedings year after year. Finally, we were also endorsed by the MICCAI society, and would like to thank them for their help in publicizing the conference.

Eduardo Romero
Natasha Lepore
Jorge Brieva