

Preface

LACAR 2017 is the first Latin American Congress on Automation and Robotics that promotes an open forum where researchers, scientists, and engineers from academia and private industries come together to present current and exciting research applications, and discuss future challenges in this fascinating field. It aims to generate activities in research, development, and application on automation and robotics by exchanging knowledge, experiences, and the synergy of research groups from different places from Latin American.

This year, the congress is held at the Universidad Tecnológica de Panama (UTP), Panama City. The congress highlights different research areas such as control algorithms, systems automation, perception, mobile robotics, computer vision, educational robotics, robotics modeling and simulation, and robotics and mechanism design. Main workshops discuss topics related to automation and robotics research in Latin American, the collaboration between research groups, development of low-cost robotic systems and disaster risk management.

We would like to extend our sincere gratitude and appreciation for all the hard work and dedication provided by the members of the organizing committee, program committee, volunteers, and staff serving LACAR 2017. Also, we thank the authors and reviewers who have contributed to this event by preparing papers of high quality. We would like to express our grateful thanks to the publisher and editorial staff of Springer for accepting and supporting the publication of this proceedings volume. We believe the LACAR 2017 proceedings are a valuable source of reference for future research and development that considers the sustainable economics and social development of Latin American countries.

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