

Preface

This volume on “Intelligent Robotics and Automation Systems” from the Springer *Communications in Computer and Information Science* series (Springer CCIS) consists of the best papers selected from LARS 2015 (the 12th Latin American Robotics Symposium) and SBR 2015 (the Third Brazilian Symposium on Robotics).

LARS 2015 and SBR 2015 comprised a comprehensive scientific meeting in the area of intelligent robotics, bringing together researchers as well as, undergraduate and graduate students of computer science, electrical engineering, mechatronics engineering, mechanical engineering and related areas. The LARS/SBR 2015 event can be considered as the most important Latin American symposium on robotic.

LARS/SBR 2015 were the major scientific/academic events of the Robotics Conferences 2015. These conferences also covered the 14th Latin American Robotics Competition (LARC 2015), the 13th Brazilian Robotics Competition (CBR 2015, 13^a Competição Brasileira de Robótica), the Brazilian Robotics Olympiad (OBR 2015, Olimpíada Brasileira de Robótica), and the National Robotics Shows (MNR 2015, Mostra Nacional de Robótica).

The 2015 Robotics Conferences 2015 were held from October 28 to November 1, 2015, on the campus of the Universidade Federal de Uberlândia (UFU) in the city of Uberlândia, Minas Gerais, Brazil.

These events were the result of a joint action of the Brazilian Computer Society (SBC), the IEEE Latin American Robotics Council and IEEE Robotics, the Automation Society Chapter of Brazil, and RoboCup Brazil, with support from FAPEMIG, CAPES, and CNPq.

We received 80 submissions from ten countries, from which 65 papers were accepted. Each submitted paper was reviewed by at least two experts. The acceptance/rejection decision used the following criteria: All papers with two positive reviews were accepted, and those with two negative reviews were rejected. Borderline papers (with one positive and one negative review) were analyzed carefully by the conference chairs in order to evaluate the reasons given for acceptance or rejection. Our final decision on these submissions took into account mainly the potential of each paper to foster fruitful discussions and the future development of robotics in Latin America and Brazil, including papers at initial stages. In some cases, an additional review was made in order for a decision to be taken. The best papers were selected considering the highest scores obtained according to the reviewers. We selected the 17 best papers from LARS and SBR 2015. Extended and improved versions of the best papers were requested from the authors of these 17 papers. The submitted articles were reviewed again by selected Program Committee members of the conferences and, after corrections, the articles were accepted for publication in this volume of the CCIS series.

We would like to thank all the authors, whose work and dedication made it possible to put together an exciting book. We are also enormously grateful to all Program Committee members and reviewers for their goodwill in cooperating for the success of this book.

We hope that you will find these papers interesting and consider them a helpful reference in the future.

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Robotics

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