Preface

This volume contains the papers presented at the Eleventh Latin American Workshop on Logic/Languages, Algorithms and New Methods of Reasoning 2018 (LANMR 2018). We include general topics related to Computer Sciences, LA part of LANMR stands both for "Languages/Logic + Algorithms", as well as for "Latin America". LANMR 2018 was held at the Benemérita Universidad Autónoma de Puebla, Puebla, Mexico, on November 15th, 2018.

This issue honoring the *memory* of colleague and friend José Ramón Enrique Arrazola Ramirez, Professor of mathematics at the Benemérita Universidad Autónoma de Puebla, died October 26, 2018. We recognize his remarkable career and essential contributions to the research of logic and modeling. LANMR will miss him.

The Eleventh edition of the workshop was organized by the Benemérita Universidad Autónoma de Puebla, the Universidad de las Américas-Puebla, and the Universidad Autónoma del Estado de México.

The workshop aimed to bring together active researchers in formal areas of Computer Science such as Logic, Formal languages, Algorithms, and Non-Monotonic Reasoning. In Latin America, there are several research groups interested in these areas. The number of papers and workshops submitted to different congresses related to Computer Sciences such as IBERAMIA, ENC, and MICAI provides evidence of such interest. So, LANMR workshop is designed to promote cooperation among practitioners and researchers across disciplines who are interested in the formal areas of Computer Sciences.

The aims of the workshop were: to present innovative theoretical work and original applications of the formal areas of Computer Sciences, to exchange ideas and to facilitate interaction between researchers of the formal areas of Computer Sciences, to discuss significant recent achievements in the theory and automation based on the formal areas of Computer Sciences, to present critical short and long-term goals for the formal areas of Computer Sciences, to provide a forum for students to present their current research in the formal areas of Computer Sciences, and receive feedback from other students and researchers.

We want to thank all authors who submitted papers as well as all the referees for their expertise and the time they put into carefully reviewing the papers.

This year the invited speaker is José Antonio Hernández-Servín, Professor of the Universidad Autónoma del Estado de México. He will provide means to

explore ways in which his research may contribute to the identification and addressing of problems of common interest in the formal areas of Computer Sciences.

We also thank the Benemérita Universidad Autónoma de Puebla, and the Universidad Autónoma del Estado de México for their support. We much appreciate the Local Committee and staff for hosting and supporting the Workshop. We are also grateful to the EasyChair team for their support.

José Raymundo Marcial Romero, Universidad Autónoma del Estado de México.
Mauricio Osorio Galindo, Universidad de las Américas Puebla.
María del Pilar Pozos Parra, Alta Tecnología Aplicada.
Claudia Zepeda Cortés, Benemérita Universidad Autónoma de Puebla.