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Sujata Ghosh · Sanjiva Prasad (Eds.)

Logic and Its Applications

7th Indian Conference, ICLA 2017
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Preface

The seventh edition of the Indian Conference on Logic and Its Applications (ICLA 2017) was held during January 5–7, 2017 at IIT Kanpur. Co-located with the conference was the ninth edition of the Methods for Modalities Workshop (M4M-9), held during January 8–9, 2017. This volume contains the papers that were accepted for publication and presentation at ICLA 2017.

The ICLA is a biennial conference organized under the aegis of ALI, the Association for Logic in India. The aim of this conference series is to bring together researchers from a wide variety of fields in which formal logic plays a significant role. Areas of interest include mathematical and philosophical logic, computer science logic, foundations and philosophy of mathematics and the sciences, use of formal logic in areas of theoretical computer science and artificial intelligence, logic and linguistics, and the relationship between logic and other branches of knowledge. Of special interest are studies in systems of logic in the Indian tradition, and historical research on logic.

We received 34 submissions this year. Each submission was reviewed by at least three Program Committee members, and by external experts in some cases. We thank all those who submitted papers to ICLA 2017. After going through the detailed reviews and having extensive discussions on each paper, the Program Committee decided to accept 13 papers for publication and presentation. These contributions range over a varied set of themes including proof theory, model theory, automata theory, modal logics, algebraic logics, and Indian systems. In addition, the authors of some other submissions were invited to participate in the conference and to present their ideas for discussion. We would like to extend our gratitude to the Program Committee members for their hard work, patience, and knowledge in putting together an excellent technical program. We also extend our thanks to the external reviewers for their efforts in providing expert opinions and valuable feedback to the authors.

The program also included four invited talks. We are grateful to Nicholas Asher, Natasha Dobrinen, Luke Ong, and Richard Zach for accepting our invitation to speak at ICLA 2017 and for contributing to this proceedings volume.

We would like to express our appreciation of the Department of Mathematics and the Department of Computer Science and Engineering at IIT Kanpur for hosting the conference. Special thanks are due to Anil Seth, Mohua Banerjee, Sunil Simon, and other members of the Organizing Committee for their commitment and effort, and their excellent arrangements in the smooth running of the conference. We also express our appreciation of the tireless efforts of all the volunteers who contributed to making the conference a success.

The putting together of the technical program was immensely facilitated by the EasyChair conference management software, which we used from managing the submissions to producing these proceedings.

We would like to thank the Association for Symbolic Logic for supporting the conference. Finally, we are grateful to the Editorial Board at Springer for publishing this volume in the LNCS series.

November 2016

Sujata Ghosh
Sanjiva Prasad

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