

Preface

This volume contains the papers presented at the 14th International Colloquium on Theoretical Aspects of Computing (ICTAC), held in Hanoi, Vietnam, during October 23–27, 2017.

The International Colloquium on Theoretical Aspects of Computing (ICTAC) constitutes a series of annual conferences/schools, initiated in 2003 by the then United Nations University International Institute for Software Technology, to bring together researchers and provide them with an international venue to present their results, exchange ideas, and engage in discussions. There were two additional goals: (i) promote cooperation between participants from emerging and developed regions, and most importantly, (ii) provide an opportunity for students and young researchers to get exposed to topical research directions in theoretical aspects of computing technologies.

ICTAC 2017 received 40 full-paper submissions coauthored by researchers from 20 different countries. Each submission was reviewed by at least three Program Committee (PC) members with the help of reviewers outside the PC. After two weeks of online discussions, the committee decided to accept 17 papers for presentation at the conference.

We would like to express our gratitude to all the researchers who submitted their work to the symposium. We are particularly thankful to all colleagues who served on the Program Committee, as well as the external reviewers, whose hard work in the review process helped us prepare the conference program. The international diversity of the PC as well as the external reviewers is noteworthy as well: PC members and external reviewers have affiliations with institutes in 22 different countries. Special thanks go to the three invited speakers – Jun Andronick from UNSW, Australia; Joose-Pieter Katoen from RWTH Aachen University, Germany; and Ruston Leino from Microsoft Research, Redmond, USA. The abstracts of the invited talks are included in this volume.

Like previous ICTACs, the 14th ICTAC included four tutorials by Jun Andronick, Joose-Pieter Katoen, Ruston Leino, and Zhiming Liu (Southwest University, China). We thank them for agreeing to offer this valuable service.

A number of colleagues have worked very hard to make this conference a success. We wish to express our thanks to the local organizing committee, Hung Pham Ngoc, Hoang Truong Anh, Hieu Vo Dinh, and many student volunteers. The University of Engineering and Technology of the Vietnam National University, Hanoi, the host of the conference, provided support and facilities for organizing the conference and its tutorials. Finally, we enjoyed institutional and financial support from the National Foundation for Science and Technology Development (NAFOSTED) of Vietnam and the HUMAX VINA Company in Hanoi, Vietnam.

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