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Deepak Kapur
University of New Mexico, Department of Computer Science
Albuquerque, NM 87131-0001, USA
E-mail: kapur@cs.unm.edu

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Preface

This volume contains the proceedings of the Eighth Asian Symposium on Computer Mathematics (ASCM 2007), which was held at the Grand Plaza Park Hotel City Hall, Singapore, December 15–17, 2007. Previous ASCM meetings were held in Beijing, China (1995), Kobe, Japan (1996), Lanzhou, China (1998), Chiang Mai, Thailand (2000), Matsuyama, Japan (2001), Beijing, China (2003), and Seoul, Korea (2005).

Amongst 65 submissions by authors from 20 mostly Asian countries, the Program Committee selected 23 regular papers and 13 posters for presentation at the symposium. The presentations and papers went through another round of reviewing after the symposium, and 22 regular papers and five short papers on posters were selected for the proceedings. The international Program Committee of ASCM 2007 had strong Asian participation, and the reviewing process was aided by numerous reviewers from around the world. I am very grateful to the Program Committee members and the reviewers for their work in evaluating the submissions before and after the conference.

In addition to contributed papers, ASCM 2007 had three invited talks—by Rida Farouki on computational geometry, by Xiaoyun Wang on cryptology, and by Georges Gonthier on a computer proof of the celebrated Four Color Theorem. I would like to thank the speakers for their excellent talks. A paper by Prof. Farouki and his coauthors is included in the proceedings. Prof. Wang's research activities and publications can be found at her home page `http://www.infosec.sdu.edu.cn/2person_wangxiaoyun2.htm`. Details about Dr. Gunthier's computerized proof of the four color theorem can be found by visiting his home page `http://research.microsoft.com/~gonthier`.

It is my hope that ASCM continues to provide a forum for participants, especially from Asia, to present original research, to learn about new developments, and to exchange ideas and views on doing mathematics with computers.

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June 2008 Deepak Kapur

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Table of Contents

Algorithms and Implementations

Numerical Methods and Applications

Elimination: Triangular Forms, Resultants, Equation Solving

Cryptology

Computational Logic