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Preface

This volume contains the refereed proceedings of the International Conference on Combinatorial and Computational Algebra which was held at the University of Hong Kong, Hong Kong Special Administrative Region, China from May 24 to 29, 1999. The conference was a part of the Algebra Program at the Institute of Mathematical Research and the Department of Mathematics of the University of Hong Kong.

The following topics were covered during the conference:
- Combinatorial and Computational Aspects of Group Theory
- Combinatorial and Computational Aspects of Associative and Nonassociative Algebras
- Automorphisms of Polynomial Algebras and the Jacobian Conjecture
- Combinatorics and Coding Theory.

In this volume the readers will find several excellent survey papers as well as research papers containing many significant new results on the subject. The emphasis was made on connections with other areas of mathematics. We hope that this volume will serve as an introductory guide for graduate students and as a good reference for further research in Combinatorial and Computational Algebra. We would like to thank all invited speakers for their beautifully presented motivating lectures and articles. We express our sincere gratitude to all the referees for their invaluable help. We are grateful to the American Mathematical Society for the help in the production of this volume. In particular we thank Christine M. Thivierge for her patient work in putting this volume together.

Finally, we want to express our special gratitude to the Department of Mathematics and the Institute of Mathematical Research of the University of Hong Kong for their warm hospitality, stimulating atmosphere and financial support.

Kai Yuen CHAN
Alexander A. MIKHALEV
Man-Keung SIU
Jie-Tai YU
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Combinatorial and Computational Algebra
Kai Yuen Chan, Alexander A. Mikhalev, Man-Keung Siu, Jie-Tai Yu, and Efim I. Zelmanov, Editors

This volume presents articles based on the talks at the International Conference on Combinatorial and Computational Algebra held at the University of Hong Kong (China). The conference was part of the Algebra Program at the Institute of Mathematical Research and the Mathematics Department at the University of Hong Kong. Topics include recent developments in the following areas: combinatorial and computational aspects of group theory, combinatorial and computational aspects of associative and nonassociative algebras, automorphisms of polynomial algebras and the Jacobian conjecture, and combinatorics and coding theory.

This volume can serve as a solid introductory guide for advanced graduate students, as well as a rich and up-to-date reference source for contemporary researchers in the field.

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