

Sung Je Cho  
*Editor*

# The Proceedings of the 12th International Congress on Mathematical Education

Intellectual and Attitudinal Challenges



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# Preface

This book is the result of the 12th International Congress on Mathematical Education (ICME-12), which was held at Seoul, Korea from July 8, 2012 to July 15, 2012.

The International Program Committee (IPC-12) of ICME-12 took on the task of acting as the editorial board to publish the Proceedings of the ICME-12 and Selected Regular Lectures of the ICME-12 in two separate volumes. All conference materials and volumes are accessible through the Open Access Program by Springer, the ICME-12 publisher.

The Proceedings volume of ICME-12 contains the Opening and Award Ceremonies, four Plenary Lectures and three Plenary Panels, four ICMI Awardees Lectures, three Survey Teams reports, five National Presentations, abstracts of 55 Regular Lectures, reports of 37 Topic Study Groups, reports of 17 discussion Groups, Closing Ceremony, and lists of participants. The Selected Regular Lectures volume of ICME-12 contains the full versions of lectures.

The ICME-12 would not have been possible without the contribution from its members and strategic partners. For the first time, all of the Korean mathematical societies united to bid and host the ICME-12. The successes of ICME-12 is closely tied to the tireless efforts of all.

A considerable amount of the ICME-12 budget was funded through private donations by mathematically minded individuals and businesses. ChunJae Education Inc. was one of the largest contributor of funds and services. Printing of the ICME-12 Program Booklets and Abstracts were paid for by ChunJae Education Inc.

The Korean Ministry of Education helped to secure the balance of the budget and assisted in the operation of ICME-12. The City of Seoul, Korea Foundation for the Advancement of Science and Creativity, and Korea Tourism Organization were significant funding bodies as well.

The dedicated members of the Local Organizing Committee, skilled professional conference organizers at MCI, and staff at the COEX (Convention and Exhibition) were integral in the successful planning and execution of ICME-12. The dedication shown by the Local Organizing Committee for the conference was second to none and well beyond expectation.

Finally, the Editor would like to express his sincere thanks to all the members of IPC-12, Korean government agencies, private donors, lecturers, members of Survey Teams, and organizers of Topics Study Groups and Discussion Groups. Gratitude also is extended to the more than 3,000 worldwide attendees who contributed to the success of the ICME-12 by sharing their expertise via paper presentations or participating in discussions. Without Prof. Hee-chan Lew's work and devotion, this extensive volume could not have been completed. The Editor would like to express his heartfelt thanks to him. The Editor believes that the world mathematical society is closer than before and leading towards more productive and friendly mathematics classrooms around the world.

Seoul, Korea

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Editor