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Preface

The 2004 International Symposium on Computational and Information Sciences (CIS 2004) aimed at bringing researchers in the area of computational and information sciences together to exchange new ideas and to explore new ground. The goal of the conference was to push the application of modern computing technologies to science, engineering, and information technologies to a new level of sophistication and understanding.

The initial idea to organize such a conference with a focus on computation and applications was originated by Dr. Jun Zhang, during his visit to China in August 2003, in consultation with a few friends, including Dr. Jing Liu at the Chinese Academy of Sciences, Dr. Jun-Hai Yong at Tsinghua University, Dr. Geng Yang at Nanjing University of Posts and Communications, and a few others. After several discussions with Dr. Ji-Huan He, it was decided that Donghua University would host CIS 2004.

CIS 2004 attempted to distinguish itself from other conferences in its emphasis on *participation* rather than *publication*. A submitted paper was only reviewed with the explicit understanding that, if accepted, at least one of the authors would attend and present the paper at the conference. It is our belief that attending conferences is an important part of one's academic career, through which academic networks can be built that may benefit one's academic life in the long run.

We also made every effort to support graduate students in attending CIS 2004. In addition to set reduced registration fees for full-time graduate students, we awarded up to three prizes for to the *Best Student Papers* at CIS 2004. Students whose papers were selected for awards were given cash prizes, plus a waiver of registration fees.

We received approximately 450 papers. All papers were reviewed by anonymous referees, members of the Scientific Committee, and the Co-chairs. Eventually 190 papers were selected for publication in the CIS 2004 proceedings. Papers were submitted by authors from 21 different countries and areas, symbolizing the true international nature of this symposium.

Many people did a lot of work to make CIS 2004 possible. We are unable to recount their names one by one. Most of them helped CIS 2004 in the form of reviewing some submitted papers. Their time and efforts spent on making CIS 2004 successful is greatly appreciated. Special thanks are due to Laurence T. Yang for help in the proceedings publication negotiation with Springer, and to Dr. Jeonghwa Lee for categorizing the accepted papers.

The CIS 2004 Scientific Committee was co-chaired by Drs. Jun Zhang, Ji-Huan He, and Yuxi Fu. Dr. Zhang was responsible for the overall organization of the conference, including forming the scientific committee, inviting the keynote speakers, calling for papers, handling most of the submitted papers, contacting the publishers, and preparing the final publications. Dr. He was responsible for

organizing the local committee, applying for initial funding, arranging the conference site, handling some of the submitted papers, and collecting registration fees. Dr. Fu was mainly responsible for external funding and industrial sponsorship.

CIS 2004 was jointly sponsored by Donghua University, Shanghai Jiaotong University, and the Laboratory for High Performance Scientific Computing and Computer Simulation at the University of Kentucky. We would like to thank the institutions for their generous support.

September 2004

Jun Zhang
CIS 2004 Co-chair

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Many people spent their valuable time on reviewing the submitted papers. We would like to thank them for their help. The following is an incomplete list of CIS 2004 referees:

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