

# The 2006 International Conference on Communications in Computing (CIC 2006)

Papers Presented at the Conference

Monte Carlo Resort, Las Vegas, Nevada, USA  
26-29 June, 2006

Part of The 2006 World Congress in Computer Science Computer Engineering, and  
Applied Computing (WORLDCOMP'06)

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Associate Editors: Victor A. Clincy, Kathy Liszka

## General Chair's Foreword

It is my pleasure to introduce this volume of papers presented at the 2006 International Conference on Communications in Computing (CIC 2006) held June 26-29 at the Monte Carlo Resort in Las Vegas, Nevada, USA.

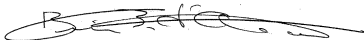
The conference focuses on the communication requirements directly induced or required by computations. An essential element of high performance computing is the trade-off in the amount of computation versus the amount of communication performed. Certain applications are inherently communication-intensive. In others, communication steps may be replaceable with local computations and vice versa. This conference provides a venue for scholarly publication that explores issues relating to the combined effects of communications and computations in the context of modern computing systems. The dissemination of notable research works from a diverse cross-section of researchers is encouraged. Discussion, liaison and the exchange of ideas are important aspects of the conference.

The conference consists of a regular session together with special sessions and workshops. Regular Research Papers are presented in formal presentations while reports and short papers are presented in discussion sessions. All papers were peer reviewed. For those papers submitted to the CIC Chair, an average of 2.75 formal reviews were completed per submitted paper. Often, the reviewer comments that were returned to the authors provided valuable critique and suggestions for improvement of the work. The acceptance rate for the Regular Research Papers submitted directly to the CIC Chair is 60%.

The location of Las Vegas, the Monte Carlo Resort, and especially the jointly-held conferences in The 2006 World Congress in Computer Science Computer Engineering, and Applied Computing (WORLDCOMP'06) were assets for all conference attendees. The multiconference atmosphere provided great opportunities to meet researchers, discuss collaborations and enjoy both the breadth and depth in the field.

Such a conference as CIC 2006 cannot be successful without the efforts of many people. Dr. Hamid Arabnia and the organizational staff supporting the World Congress are thanked for their time and efforts. Antonio Pescapè has greatly assisted in the overall conference organization, in particular, he has been the main organizer of the Steering Committee and Publicity Committee and has provided me many helpful comments and suggestions during the year — thank you. Alessio Botta, Alberto Dainotti and Victor Clincy are thanked for their organizational and promotional efforts. My thanks go to the Steering Committee for their assistance and suggestions. My thanks also go to the Program Committee. Their response in providing quality review reports in a very short time frame are appreciated by all of us. Several other individuals assisted in the submission reviews; their assistance is equally appreciated. The co-editors and associate editors of the conference are thanked for their hard-working efforts, I am sure that the late nights they have spent working on conference material are appreciated. The staff of the Monte Carlo Resort are especially thanked for providing a friendly environment for our conference.

Lastly, it is my sincere belief that all who attend here in Las Vegas, and all who may yet read these proceedings, may find the information and research enclosed herein useful in furtherance of their goals. Thank you to all who participated.



Dr. Brian J. d'Auriol

General Chair, CIC 2006

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In addition to the above, several publishers of computer science and computer engineering books and journals, chapters and/or task forces of computer science associations/organizations from 12 countries, and developers of high-performance machines and systems have provided significant help in organizing the conference.