IEEE CIT 2007, the 7th IEEE International Conference on Computer and Information Technology, is held at the University of Aizu, Fukushima Prefecture, Japan, 16–19 October 2007. CIT is a multidisciplinary conference in the field of computer and information technology. Its gathering of experts from all fields of computer science and IT makes it a major occasion for computer scientists to share their latest work, and a unique opportunity for students (most of whom are PhD students) to present their research in an international forum.

This year’s CIT has a new highlight. Multiple conferences held jointly with CIT at the same venue and during the same period provide attendees from different but related fields a unique opportunity, through keynotes and technical sessions, to exchange ideas and information. These conferences are the 6th International Conference on Bioelectromagnetism (ICBEM 2007), the Workshop on Databases in Network Information Systems (DNIS 2007), the 8th International Symposium on Spatial Media (ISSM 2007–2008), and the IEEE Professional Communication Seminar in Japan (PCSJ).

Since CIT 2006 in Seoul, the conference has been officially supported by the IEEE Computer Society. We are pleased to note that CIT 2007 continues to adhere to IEEE standards in all aspects. This year, a total of 188 papers were accepted from 315 submissions from 30 countries and areas. These papers were selected based on peer reviews by Program Committee members and other invited reviews following IEEE standard procedures. The proceedings represents the efforts of all contributors, reviewers, and conference organizers. We would like to express our appreciation to all contributors for submitting highly accomplished work, to all reviewers for their time and valuable comments, and to all members of the conference committees for giving generously of their time over the past year. We thank our sponsors for financial and technical support, and we thank IEEE Computer Society Conference Publishing Services for their professional efforts in publishing the conference proceedings.

Daming Wei, General Chair

Toshiaki Miyazaki and Incheon Paik, Program Committee Co-Chairs