Welcome from the Program Committee Co-Chairs

Welcome to ISSRE 2005! The 16th IEEE International Symposium on Software Reliability Engineering is being held from November 8 to 11 in Chicago, Illinois. The conference has a long tradition of focusing on both the theory and the practice on Software Reliability Engineering. This year is no exception. The scope of this year’s conference includes techniques and practices to verify and validate software, estimate and predict its reliability, and to make it more tolerant/robust to faults. Because of the increasing importance and prevalence of mobile devices and applications in society today, the overall theme of this year’s conference is “Developing High Reliability for Ubiquitous Mobile Applications.” Engineering reliable software for this class of applications raises many interesting challenges and issues that do not exist in other kinds of applications.

We have prepared a very strong technical program with 11 regular paper sessions, three fast abstract sessions, eight industry presentation sessions, two panels, and three keynote addresses. There were 98 regular paper submissions from more than 21 countries and areas. Each of them was carefully evaluated by at least three reviewers. These reviews were used for selecting papers to be presented at the conference. Thirty-two papers were accepted, covering a broad spectrum of topics in both mobile and non-mobile applications including software reliability, vulnerability, dependability, testing, requirements, safety analysis, defect prediction, and quality assurance.

Of the 28 fast abstract submissions, 23 were accepted. While regular papers focus on their originality and research contributions, fast abstracts provide authors an opportunity to report on-going work, describe practical experience, introduce new ideas to provoke further validation, or state positions on controversial issues. We also have 21 industry presentations. The objective of the industry sessions is to expose the software reliability engineering academic community to areas that are vital to the software industry, give researchers an opportunity to showcase new ideas to practitioners, and provide a forum for industry participants to share their tools and practices. The fast abstracts and industry presentations will be presented at the conference and appear in the supplementary proceedings. Six workshops are organized separately with special emphases: Testing Aspect-Oriented Programs, Software Assessment, Requirements for High Assurance Systems, Cyberspace Threats and Vulnerabilities, Space Systems Software Reliability, and Dependability Benchmarking.

We would like to thank all the authors, panelists, and keynote speakers for sharing their ideas, insights, and results with the ISSRE community. We would also like to thank all of the members of the Program Committee and the reviewers for their help in evaluating and selecting high-quality papers. Without their participation, the success of ISSRE 2005 would not be possible. Special thanks also go to Yu Qi at the University of Texas at Dallas for his efforts in maintaining the conference Web site, and to Sharelle Brown at Telcordia for her help in organizing the logistics for the Program Committee meeting.

On behalf of the Program Committee, we thank you for attending ISSRE 2005 and hope that you enjoy the conference.

W. Eric Wong, University of Texas at Dallas, USA
Mark E. Segal, Telcordia Technologies, USA