Call for Participation

The 31st Annual International Computer Software and Applications Conference

COMPSAC 2007

Beijing, China

July 24 - 27, 2007

Signature Conference on Software Technology & Applications

You are cordially invited to participate in COMPSAC 2007 (http://compsac.org), to be held for the first time in Beijing, China on July 23-37, 2007. COMPSAC is a major international forum for researchers, practitioners, managers, and policy makers interested in computer software and applications. It was first held in Chicago in 1977, and since then it has been one of the major forums for academia, industry, and government to discuss the state of art, new advances, and future trends in software technologies and practices.

The creation of trustworthy and dependable software spans all aspects of software engineering. COMPSAC is a unique forum to bring together these facets and their major stakeholders. Building on the trustworthy, secure, and dependable software themes of highly successful recent COMPSAC conferences, the technical theme for the 31st conference is SOFTWARE ENGINEERING -- CRITICAL FEATURES and INFRASTRUCTURES

The program of COMPSAC 2007 will continue to feature research and industrial practice papers with a wide range of topics, focusing on the software engineering of critical infrastructure systems such as, but not limited to, civil, telecommunications, and medical systems. To properly engineer such systems, the foundations, methodologies, and mechanisms that support the design, modelling, and evaluation of software systems must come from diverse sources. Topics of interest include requirement analysis, co-analysis and co-design, modelling, design, development, testing, measurement, verification and validation for performance, safety, security, and dependability constraints. Effective construction of these systems is not limited solely to the field of computer science and engineering and is truly a multidisciplinary effort. Multidisciplinary work, research and development software prototypes, industry-university collaborations, all based on new emerging and critical technologies will be of particular interest to this conference. All accepted papers will be published in the conference proceedings in hardcopy and on-line version by the IEEE Computer Society. Plans had been made to forward selected papers to archival journals for publications.

This year, we received 325 paper submissions worldwide. Only 59 high quality research papers were finally accepted as regular papers and 34 were accepted as short papers after a thorough and rigorous review process. These papers will be presented in technical sessions from six tracks: requirements, quality, maintenance and system life cycle, security, education, and industry. You will surely find it rewarding to join us in the conference. In addition to paper presentations selected via a highly competitive peer review process, the technical program also consists of many keynotes, panels, tutorials, 14 workshops, and a doctoral symposium.

Program At-a-Glance

SECURITY TRACK (4 Sessions)
- Security in Communication
- Modeling Security
- Vulnerabilities: Detecting and Assessment
- Infrastructure, Networking and Security

QUALITY OF SERVICE (3 Sessions)
- Quality of Service and Performance
- Quality of Service and Service Composition
- Modeling and Validation for Quality of Service

REQUIREMENTS (5 Sessions)
- Design and Modeling
- Putting Models to Run
- Event-Based and State-Based Modeling
- Ontology for Requirements Elicitation
- Analysis & Modeling

QUALITY (6 Sessions)
- Validation and Assessment
- Quantification
- Specification and Verification
- Coverage and Prioritization for Testing
- Analysis and Testing
- Quality, Diversity and Services

LIFE CYCLE (4 Sessions)
- Internet and Web-Based Systems
- Component-Based Software and Architecture
- Embedded systems
- Process and Maintenance

INDUSTRIAL TRACK (3 Sessions)
- Process Models
- Data, Repositories, Design Methods
- Networking and Distribution