

Call For Papers

The Eighth IEEE International Conference on Engineering of Complex
Computer Systems
Greenbelt, Maryland, USA
December 2 – 4, 2002

Complex computer systems are common in many sectors, such as manufacturing, communications, defense, transportation, aerospace, hazardous environments, energy, e-commerce, and health care. These systems are frequently distributed over heterogeneous networks, and are driven by many diverse requirements on performance, real-time behavior, fault tolerance, security, dependability, adaptability, development time and cost, long life concerns, and other areas. In addition, the emerging area of web-based software requires solutions to complex problems of highly integrated and complex components. Such requirements frequently conflict, and their satisfaction therefore requires managing the trade-off among them during system development and throughout the entire system life.

The goal of this conference is to bring together industrial, academic, and government experts from a variety of user domains and software disciplines, to discuss how the different disciplines' problems and solution techniques interact within the entire system. Researchers, practitioners, tool developers and users, and technology transition experts are all welcome. The scope of interest includes long-term research issues, near-term complex system requirements and promising tools, existing complex systems, and commercially available tools.

Topic areas

Papers are solicited in all areas related to complex computer systems, including theories and technologies for developing complex systems and identifying causes of their complexity, and means of avoiding, controlling, or coping with complexity. Topic areas include, but are not limited to:

- Embedded real time complex systems
- Distributed and network based complex software systems
- Design and analysis of complex software systems
- Formal methods for complex systems
- Techniques for emerging web-based complex systems
- Techniques for component-based software development
- Testing and reliability modeling
- Software process management
- Software Metrics

Session organization

Different kinds of contributions are sought, including research papers, lessons learned, status reports, and discussion of practical problems faced by industry and user domains. The ultimate goal is to build a rich and comprehensive conference program that can fit the interests and needs of different classes of attendees: professionals, researchers, managers, and students. A program goal is to organize several sessions that include both academic and industrial papers to a given topic and panels to discuss relationships between industrial and academic research.

Keynote Speakers

- Bev Littlewood, City University, London, UK
- Victor R. Basili, University of Maryland, US
- Jifeng He, The United Nations University, Macau

Submission information

We solicit regular research papers, industrial experience reports, and extended abstracts. Awards will be given for the best paper and best conference presentation. Selected papers will be considered for publication in suitable journals, if possible as a special issue. Details are available on the ICECCS 2002 web site: <http://ise.gmu.edu/iceccs2002/>.

Industrial exhibits

ICECCS 2002 provides industrial exhibitors an opportunity to present their state-of-the-art systems, development tools, and applications. Exhibitors are able to exchange ideas with leading researchers from all around the world, and to make new contacts for future interactions.

Location

Greenbelt Marriott Hotel, Maryland, USA

Important dates

May 3, 2002	Initial abstract due
May 10, 2002	Deadline for submission of papers/extended abstracts
June 7, 2002	Proposals for tutorials, panels and exhibits due
July 2, 2002	Notification to authors of acceptance or rejection
September 6, 2002	Final camera-ready papers or extended abstracts due

Organizing Committee

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