

Component-Based Software Engineering

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Component-based software engineering (CBSE) is concerned with the development of software-intensive systems from reusable parts (components), the development of such reusable parts, and the maintenance and improvement of systems by means of component replacement and customization. Although it holds considerable promise, there are still many challenges facing both researchers and practitioners in establishing CBSE as an efficient and proven engineering discipline. Six CBSE workshops have been held consecutively at the most recent six International Conferences on Software Engineering (ICSE). The premise of the last three CBSE workshops was that the long-term success of component-based development depends on the viability of an established science and technology foundation for achieving predictable quality in component-based systems. The intent of the CBSE 2004 symposium was to build on this premise, and to provide a forum for more in-depth and substantive treatment of topics pertaining to predictability, to help establish cross-discipline insights, and to improve cooperation and mutual understanding. The goal of the CBSE 2004 symposium was to discuss and present more complete and mature works, and consequently collect the technical papers in published proceedings. The response to the Call for Papers was beyond expectations: 82 papers were submitted. Of those 25 (12 long and 13 short) were accepted for publication. In all 25 cases, the papers were reviewed by three to four independent reviewers. The symposium brought together researchers and practitioners from a variety of disciplines related to CBSE.

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