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Nota di contenuto	Invited Talks -- Putting Change at the Center of the Software Process -- Interface Specification: A Balancing Act -- Generation and Adaptation of Component-Based Systems -- An Open Component Model and Its Support in Java -- Software Architectural Support for Disconnected Operation in Highly Distributed Environments -- Using Smart Connectors to Resolve Partial Matching Problems in COTS Component Acquisition -- Correctness of Component-Based Adaptation -- Strategies for a Component-Based Self-adaptability Model in Peer-to-Peer Architectures -- Tools and Building Framework -- Classifying Software Component Interoperability Errors to Support Component Adaption -- Correct Components Assembly for a Product

Data Management Cooperative System -- The Release Matrix for Component-Based Software Systems -- Viewpoints for Specifying Component-Based Systems -- CMEH: Container Managed Exception Handling for Increased Assembly Robustness -- A Framework for Constructing Adaptive Component-Based Applications: Concepts and Experiences -- Testing Framework Components -- Components for Real-Time Embedded Systems -- Industrial Requirements on Component Technologies for Embedded Systems -- Prediction of Run-Time Resource Consumption in Multi-task Component-Based Software Systems -- Design Accompanying Analysis of Component-Based Embedded Software -- Introducing a Component Technology for Safety Critical Embedded Real-Time Systems -- A Hierarchical Framework for Component-Based Real-Time Systems -- Extra-Funtional Properties of Components and Component-Based Systems -- Extra-Functional Contract Support in Components -- CB-SPE Tool: Putting Component-Based Performance Engineering into Practice -- Component Technology and QoS Management -- Computational Quality of Service for Scientific Components -- A Framework for Reliability Assessment of Software Components -- Measurements and Prediction Models for Component Assemblies -- Performance Prediction for Component Compositions -- TESTEJB – A Measurement Framework for EJBs -- Model-Based Transaction Service Configuration for Component-Based Development.

Sommario/riassunto

Component-based software engineering (CBSE) is concerned with the devel- ment of software-intensive systems from reusable parts (components), the dev- opmentofsuchreusableparts, andthemaintenanceandimprovementofsystems by means of component replacement and customization. Although it holds c- siderable promise, there are still many challenges facing both researchers and practitioners in establishing CBSE as an e?cient and proven engineering dis- pline. 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. TheintentoftheCBSE2004symposiumwastobuildonthispremise,andto provide a forum for more in-depth and substantive treatment of topics perta- ing 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.