



11th International Symposium on Component Based Software Engineering (CBSE 2008)

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ARCH | 08 <http://comparch2008.ipd.uka.de/>

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Universität Karlsruhe,
Germany



*Accepted publications will
be published as Springer
LNCS*

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Goals

Component-based Software Engineering (CBSE) has emerged as a technology for rapid assembly of flexible software systems. CBSE combines elements of software architecture, modular software design, software verification, configuration and deployment. To foster exchange and collaboration with the software architecture community, CBSE is colocated with the Quality of Software Architectures Conference (QoSA) as part of the federated CompArch event. CBSE has a track record of bringing together researchers and practitioners from a variety of disciplines to promote a better understanding of CBSE from a diversity of perspectives, and to engage in active discussion and debate. The symposium addresses participants from both universities and industry.

Scope

The theoretical foundations of component specification, composition, analysis and verification continue to pose research challenges. While the engineering models and methods for component software development are slowly maturing, new trends in global services and distributed systems architectures push the limits of established and tested component-based methods, tools and platforms. CBSE 2008 will include contributions that explore how the nature of component-based software engineering is being influenced by developments in the field of software and global enterprise technology. In addition to presentations of papers, the symposium will incorporate working and industry sessions.

Topics of interest

- * Design of component models;
- * Theories (including taxonomies) of software composition and binding;
- * Co-ordination and choreography of component software, services, workflows;
- * Run-time adaptation of component-based systems;
- * Interaction between component models, software architectures and product lines;
- * Component-based web services and service-oriented architectures;
- * Software quality and extra-functional properties for components and component-based systems;
- * Global generation, adaptation and deployment of component-based systems and services;
- * Components, model-driven development and generative approaches;
- * Specification, verification and testing of component-based systems;
- * Compositional reasoning techniques for component models;
- * Global measurement, prediction and monitoring of distributed and service components;
- * Patterns and frameworks for component-based systems and services;
- * Integrated tool chains and methods for building component-based services;
- * Components for networked real-time information systems and sensor networks.
- * Industrial experience using component-based software development
- * Empirical studies in component-based software engineering
- * Teaching component-based software engineering

Paper Submission

All submitted papers will be reviewed by at least three program committee members (four for papers with an author on the program committee). Papers must not have been previously published or concurrently submitted elsewhere. Any duplicate submissions will be rejected without review. As always, the symposium seeks reports on innovative contributions to the science and technology of CBSE. Papers describing practical experience with CBSE in mission- and performance-critical systems are of particular interest. Long and short papers on leading-edge research and development in progress are also encouraged. Long papers must not exceed 16 pages and short papers must not exceed 8 pages, in the required format. The proceedings are expected to be published in the Springer Lecture Notes in Computer Science (LNCS) series and papers should have the requisite format.

Submission is possible at: <https://cmt.research.microsoft.com/CBSE2008/Default.aspx>

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Organization

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