

Call for Papers
workshop on
Component Models for Dependable Systems

<http://www.win.tue.nl/~mchaudro/CMDS2004/CMDS2004.html>

31 Aug – 1 Sept, Rennes, France

Sponsored by ITEA project Space4U

Scope

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Component based software engineering is being recognized as an important approach for reducing development-time and development cost. Many areas of automation, such as consumer electronics, medical systems, telecommunications, automotive, have high dependability requirements. In order to successfully apply the CBD approach to the building of dependable systems, component models are needed that include mechanisms for dealing with dependability properties in an integral manner. The aim of this workshop is to study mechanisms and techniques that enhance the CBD paradigm for dependable systems.

Topics

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Major topics of interest include

- * Component models for resource-constrained devices
- * Techniques and mechanisms for handling
 - * Reliability
 - * Fault-tolerance
 - * Security
 - * Safety
 - * Timeliness / Real-Time,in component-based systems
- * System Integrity Management
- * Run-time contract checking
- * Exception handling mechanisms
- * Remote System Management
- * Software upgrade and dynamic reconfiguration in dependable systems
- * Methods and Techniques for predicting and analysing non-functional properties of component-based systems
- * Testing, Validation & Certification of dependability properties

It is highly recommended that papers explain:

- * the relation between the requirements of a domain and the different design choices made in the component model.
- * the specific complications that arise from integrating the technique/mechanism in a component-based approach

Papers must describe original work and must not have been accepted or submitted for publication elsewhere.

Submitted papers will be evaluated for technical contribution, originality, and significance.

Submission

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Papers should not exceed 6000 words.

Submissions should be prepared in PDF (preferred) or PostScript format printable on A4 paper-format and sent to Johan Muskens (j.muskens@tue.nl)

All paper submissions will be reviewed by at least 3 international experts and comments will be returned to author(s) with each review.

Publication

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Proceedings of the workshop will be included in the proceedings of the Euromicro 2004 conference

Important dates

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Paper submission: April 30th 2004

Notification to authors: May 15th 2004

Camera ready copy: June 9th 2004

Program Committee

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