



## 31th EUROMICRO CONFERENCE

### COMPONENT-BASED SOFTWARE ENGINEERING TRACK



Universidade do Porto  
Faculdade de Engenharia  
**FEUP**

**PORTO, Portugal  
August 30st - September 3rd, 2005**

#### **Programme Chairman**

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Submission of papers:

**March 1st, 2005**

Notification of acceptance:

**May 3th, 2005**

Camera-ready paper due:

**June 9th, 2005**

#### **Programme Committee**

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Westminster, UK)

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Kurt Wallnau (CMU-SEI, USA)

Christian Zeidler (ABB, Germany)

Mario Zagar (U-Zagreb, Croatia)

**Avenue:** The conference will take place at Porto University. The second-largest city in Portugal was nominated European City of Culture for 2001 and the historical centre is a UNESCO World Heritage Site. Founded by the Romans at the mouth of the River Douro, modern Porto (Oporto) is an industrial city with a wonderful atmosphere and plenty to see.

Component-based software engineering (CBSE) is a development paradigm that promises to accelerate software development and to reduce costs by assembling systems from prefabricated software components. Designing, developing and maintaining components and component-based applications for reuse is, however, a very complex process, which places high requirements not only for the component functional and non-functional properties, but also for the development organization. CBSE covers many software engineering disciplines and different techniques. Many of them have been developed and successfully implemented. CBSE has been successful in certain engineering domains, such as office applications and distributed internet-based applications but it is still in the early stage of utilization in many other domains, in particular those which have specific requirements on different quality attributes. The CBSE track, fifth in a row, has a goal to point out the overall challenges and problems of the component-based approach, but also show the new ideas, solutions and practices. The aim of the track is to bring together researchers and practitioners from academia and industry to improve the theories, technologies, and processes in component-based software development. We encourage submissions of both theoretical nature and experience reports from academia and especially from industry. Suggested areas of interest include, but are not restricted to:

*Component models and technologies*

*Component specifications*

*Dependability of component-based systems*

*Component-based software architecture*

*Component-based requirements engineering*

*Evaluation of components*

*Component design, implementation, testing*

*Component development processes*

*Evolution of Component-based applications*

*Software product-line approach*

*CBSE and emerging disciplines (services, model-driven development, aspect-oriented programming, etc.)*

*Component compositions*

*Components and Quality Attributes*

*Components for real-time and embedded systems*

*COTS components*

*Components and Open Source*

*Middleware solutions for CBSE*

*Development environment and tools*

*Component markets and businesses*

*CBSE organizational issues*

*Case studies and experience reports*

#### **SUBMISSION OF PAPERS**

The submissions should be made electronically, either in postscript or PDF format. To submit papers visit <http://www.idt.mdh.se/ecbse/2005/cyber/html/submit>.

The accepted paper should follow two column IEEE conference format. To get format description and templates follow the link:

<http://www.idt.mdh.se/ecbse/2005/ecbse-mansubmit.htm>

Papers should not exceed 8 pages (in IEEE/CS proceedings format; 10pt, single-space, double-column) or 6000 words and include an abstract of up to 150 words. Papers must not have been previously published or submitted elsewhere. If accepted, the paper must be personally presented at the EUROMICRO 2005 Conference by the author or one of the co-authors. The presenting author(s) must pre-register (full fee) for EUROMICRO 2005 before the due date of the Camera-ready paper.

#### **GENERAL INFORMATION**

This track is an integral part of the EUROMICRO 2005 conference. The conference proceedings will be published by the IEEE Computer Society.

See EUROMICRO conference page <http://www.idt.mdh.se/euromicro-2005/>

