



30th Euromicro Conference COMPONENT-BASED SOFTWARE ENGINEERING TRACK



Rennes - France, August 31st September 3rd, 2004

Programme Chairman

Ivica Crnkovic

ivica.crnkovic@mdh.se

Malardalen University, Sweden

Programme co-chair

Magnus Larsson

magnus.larsson@mdh.se

ABB Corporate Research

IMPORTANT DATES

Submission of papers:

March 1st, 2004

Notification of acceptance:

May 3th, 2004

Camera-ready paper due:

June 9th, 2004

Programme Committee

Antonia Bertolino (CNT, IT)

Jan Bosch (U-Groningen, NL)

Arne-Jørgen Berre (SINTEF, NO)

Michel Chaudron (U-Eindhoven, NL)

Onur Demirörs, (METU, TR)

Jacky Estublier (Imag, FR)

Even-André Karlson (Q-Jabs, SE)

Andre van der Hoek (U-CA, US)

Gerald Kotonya (U-Lancaster, UK)

Stig Larsson (ABB, SE)

Kung-Kiu Lau (U-Manchester, UK)

Eila Niemelä (VTT, FI)

Oscar Nierstrasz (U-Bern, CH)

Rob van Ommering (Philips, NL)

Stefano De Panfilis (Engineering

Ingegneria Informatica, IT)

Annita Persson Dahlqvist

(Ericsson, SE)

Alexander Romanovsky, U-

Newcastle, UK)

Muthu Ramachandran, (U-Leeds,

UK)

Veikko Seppänen (U-Oulu, FI)

Heinz Schmidt (Monash U, AU)

Judith Stafford, (Tufts U, US)

Fritz Stallinger (U-Linz, A)

Jeffrey Voas (Cigital, US)

Kurt Wallnau (CMU-SEI, US)

Mario Zagar (U-Zagreb, Croatia)

Christian Zeidler (ABB, GE)

Component-based software engineering (CBSE), is an emerging 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 which still have not been fully defined, explained and exploited either from theoretical or practical points of view. CBSE has been successful in certain engineering domains, 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 aim of the conference track is to bring together practitioners and researchers 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 from industry. Suggested areas of interest include, but are not restricted to:

Component models and technologies systems

Component specifications

Component compositions

Component-based software architecture

Component-based requirements engineering

Evaluation of components

Evolution of Component-based applications

Component design, implementation, testing

Component development processes

Software product-line approach

CBSE and emerging disciplines (services, MDA, Agent-based programming, aspect-oriented programming)

Components for real-time and embedded

Components and Quality Attributes

Dependability of component-based systems

Middleware solutions for CBSE

Development environment and tools

COTS components

Software 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. The accepted paper should follow two column IEEE conference format. To get format description and templates follow <http://www.idt.mdh.se/ecbse/2004/ecbse-mansubmit.htm> link.

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. If accepted, the paper must be made available in Camera-ready forms by June 15th, 2003, and it must be personally presented at the EUROMICRO 2004 Conference by the author or one of the co-authors. The presenting author(s) must pre-register (full fee) for EUROMICRO 2004 before the due date of the Camera-ready paper.

GENERAL INFORMATION

This track is an integral part of the EUROMICRO 2004 conference. The conference proceedings will be published by the IEEE Computer Society.

For further information see <http://www.kom.tu-darmstadt.de/euromicro2004> and the Workshop website at <http://www.idt.mdh.se/ecbse/2004>