ECCOMAS2004

ECCOMAS 2004 - the Fourth European Congress on Computational Methods in Applied Sciences and Engineering

Funding: European (6th RTD Framework Programme)
Duration: Feb 2004 - Sep 2004
Status: Complete with results
Total project cost: €365,614
EU contribution: €40,000

Call for proposal: FP6-2002-AERO-2
CORDIS RCN: 72839

Background & policy context:

ECCOMAS is an organisation grouping European Associations with interests in the development and applications of computational methods in science and technology.

ECCOMAS was created in 1993 with the aim of fostering basic and applied research and dissemination of activities in Europe in the field of Computational Methods in Applied Sciences.

ECCOMAS Council is formed by official representatives of National or Regional Scientific Societies or Organizations covering most of the European countries. Its main mission is to favour the exchange of information, and to promote the transfer between Research and Industry at the European scale. Its fields of interest are the applications of Mathematical and Computational Methods and Modelling to major areas such as Fluid Dynamics, Structural Mechanics, Semi-conductor Modelling or Electromagnetics. Multidisciplinary applications of these fields to critical societal and technological problems encountered in sectors like Aerospace, Car and Ship Industry, Electronics, Energy, Finance, Chemistry, Medicine, Biosciences, Environmental sciences are of particular interest.

The main event organised by ECCOMAS was a large European conference which takes place on a four year cycle and addresses scientists and engineers both in and outside Europe. The main objective of these conferences is to provide a forum for presentation and discussion of state-of-the-art in scientific computing applied to engineering sciences. Equal emphasis is given to basic methodologies, scientific development and industrial applications.

Objectives:

The objective of this specific support action was to take the opportunity of the IV European Congress in Computational Method in Engineering and Applied Sciences to be held in Jyväskylä on 24-28 July 2004 (ECCOMAS 2004) to promote and increase awareness in the outputs and on-going developments carried out in RTD projects within the V and VI Framework Programmes in the field of computational engineering and science.

Methodology:

New joint activities between university and industry in this field were envisaged also to be promoted. More specifically the action intended to make use of the ECCOMAS Congress and Exhibition to foster the exchange of information on RTD outputs and development from ongoing and finished RTD projects between the research community and industrial users interested in the application of computational methods for solving practical problems in science and engineering.

Particular effort were put in the interchange of experiences between academic and industry through the ECCOMAS Exhibition and Congress. This event was considered as the starting point for many joint RTD activities and ventures between research groups and industry, particularly SME companies, interested in the use and development of computer based simulation method for enhanced design and productivity.
Parent Programmes:
FP6-AEROSPACE - Aeronautics and Space - Priority Thematic Area 4 (PTA4)

Institute type: Public institution
Institute name: European Commission
Funding type: Public (EU)

Lead Organisation:

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<th>University Of Jyväskylä</th>
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<tr>
<td>Address:</td>
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<tr>
<td>JYVÄSKYLÄ</td>
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Organisation Website: http://www.jyu.fi
EU Contribution: €0

Key Results:

Particular emphasis were put in the promotion of this cooperation involving emerging university groups and SME industries with none or little experience in participating in RTD projects under EC support. ECCOMAS 2004 Congress was organised in co-operation with ECCOMAS (The European Community on Computational Methods in Applied Sciences), the University of Jyväskylä, Department of Mathematical Information Technology, the City of Jyväskylä, and Jyväskylä Congresses. The scientific programme consisted of lectures by respected experts, minisymposia, contributed and poster presentations, and special technological sessions. The main interest of the Congress was in the aeronautic sector.

Documents:
- Papers in conference proceedings (Other project deliverable)

STRIA Roadmaps: Other specified
Transport mode: Air transport
Transport sectors: Passenger transport, Freight transport
Transport policies: Societal/Economic issues, Decarbonisation
Geo-spatial type: Other