

COUPLED PROBLEMS 2009

8-10 Junio 2009, Ischia Island, Italy

Conference Secretariat

International Center for Numerical Methods in Engineering (CIMNE),

Edificio C-1, Campus Norte UPC

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<http://congress.cimne.upc.es/coupled09>



An ECCOMAS Thematic Conference

Coupled Problems 2009 is one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS) www.eccomas.org

Coupled Problems 2009 is also an IACM Special Interest Conference. More information on IACM in: www.iacm.info

Registration Fees

The registration fees (in Euro), including social events, with early registration applicable if received before **27 February 2009** are:

	Early	Late
Delegates	470 €	550 €
Students	250 €	290 €

ECCOMAS and IACM members will have a 5% reduction on the delegates fees.

The delegates fees will include: Conference Proceedings; attendance at all scientific sessions; coffee breaks, reception and banquet.

Social Programme

A social programme for delegates will be arranged, including a reception and a banquet at a local place of interest, as well as a social programme for accompanying persons.

Accommodation

Block reservations at preference rates have been arranged by the organizers. Detailed information is available on the Conference site.

Supporting Organisations

- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- International Association for Computational Mechanics (IACM)
- University of Padova, Italy
- International Center for Numerical Methods in Engineering (CIMNE), Barcelona, Spain
- Greek Association for Computational Mechanics (GRACM)
- National Technical University of Athens, Greece
- Universitat Politècnica de Catalunya (UPC), Spain
- Gruppo Italiano di Meccanica Computazionale (GIMC), Italy

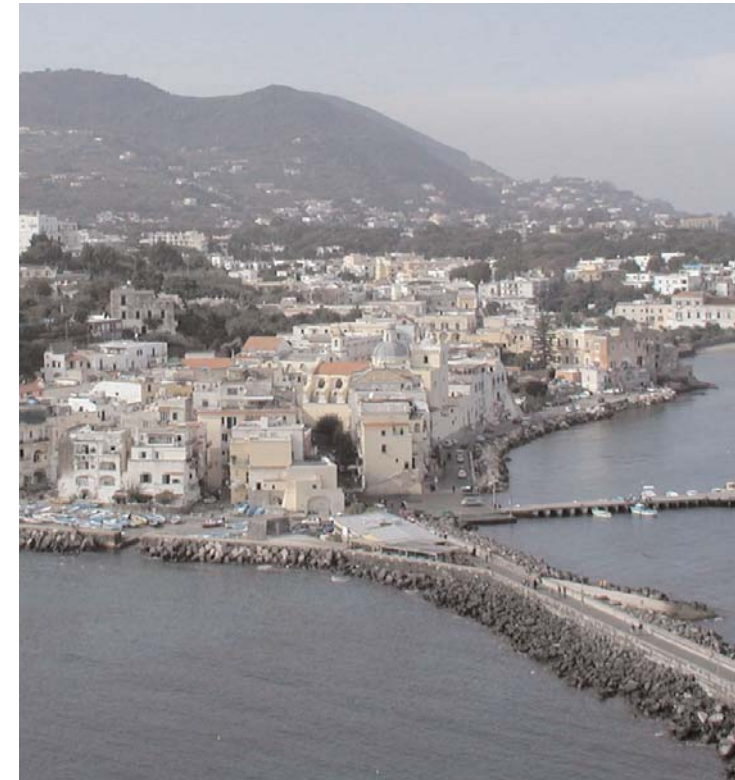


COUPLED PROBLEMS 2009

III International Conference on Computational Methods for Coupled Problems in Science and Engineering

8-10 June 2009, Ischia Island, Italy

An IACM Special Interest Conference



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Objectives

The increasing necessity to solve complex problems in science and engineering accounting for all the coupling occurring on the different scales of the problem requires the development of new ideas and methods which can effectively provide accurate numerical solutions in affordable computing times.

The objective of Coupled Problems 2009 is to present and discuss state of the art, mathematical methods, numerical methods and computational techniques for solving coupling problems of multidisciplinary character in science and engineering. Emphasis will be given on showing the potential of new computational methods for solving practical multidisciplinary problems of industrial interest.

Previous editions on the conference were held in the Islands of Santorini, Greece (2005) and Ibiza, Spain (2007), Coupled Problems 2007 attracted some 180 participants. The goal of COUPLED PROBLEMS 2009 is to make a step forward in the formulation and solution of real life problems with a multidisciplinary vision accounting for all the complex couplings involved in the physical description of the problem.

Conference Topics

Papers are welcomed in one of the following topics (the list is not exhaustive):

- Mathematical formulation of multidisciplinary, multiphysics problems.
- Numerical methods for coupled problems: finite elements, finite volume, finite differences, meshless methods, etc.
- Coupled solution strategies. Loose and strong coupling schemes.
- Computational methods for multiscale problems.
- Distributed computing methods. Grid computing technologies.
- Optimum design in multi-disciplinary problems.
- Applications in science and engineering: thermo-mechanical problems, soil-structure-interaction, electro-magnetic-dynamic problems, aero-acoustic, geomechanics, etc.

Location

The conference will take place at the Hotel Continental Terme in the island of Ischia in Italy (<http://www.continentalterme.it>). Ischia is one of the most appealing islands in the Mediterranean sea with beautiful beaches and landscapes, and interesting cultural heritage and excellent cuisine.

Conference Chairmen

B. Schrefler Università degli Studi di Padova, Italy
E. Oñate Universitat Politècnica de Catalunya, Spain
M. Papadrakakis National Technical University of Athens, Greece

Technical Advisory Panel

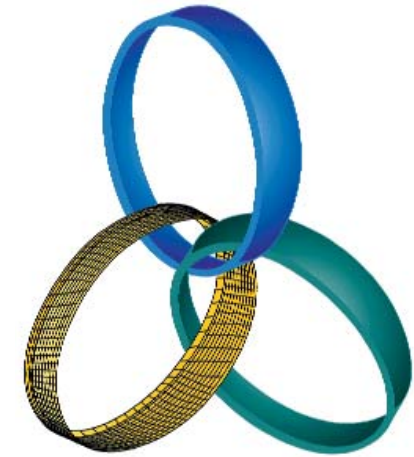
C. Agelet de Saracibar, **Spain**
M.H. Aliabadi, **UK**
F. Armero, **US**
M. Arroyo, **Spain**
K.-J. Bathe, **USA**
G. Beer, **Austria**
M. Castelleiro, **Spain**
M. Cervera, **Spain**
M. Chiumenti, **Spain**
F. Chinesta, **France**
R. Codina, **Spain**
J.-P. Coyette, **Belgium**
M. Doblare, **Spain**
C. Farhat, **USA**
C. Felippa, **USA**
J. Fish, **USA**
L. Gastaldi, **Italy**
J.M. Goicolea, **Spain**
A. Guerrero, **Spain**
A. Huerta, **Spain**
T.J.R. Hughes, **USA**
J.M. Huyghes, **The Netherlands**
S. Idelsohn, **Argentina**
H. Irschik, **Austria**
G.E. Karniadakis, **USA**
A.J. Kassab, **USA**
P. Ladevèze, **France**
R. Lerch, **Germany**
R.W. Lewis, **U.K.**
W.K. Liu, **USA**
C. Majorana, **Italy**
J. Mora, **Spain**
H. Muhlhaus, **Australia**
R. Ohayon, **France**
R. Owen, **U.K.**
K. C. Park, **USA**
J. Périaux, **France**
G. Pijaudier-Cabot, **France**
P.M. Pinsky, **USA**
E. Ramm, **Germany**
E. Rank, **Germany**
K. Runesson, **Sweden**
A. Tadeu, **Portugal**
T. Tezduyar, **USA**
O. von Estorff, **Germany**
W. Wall, **Germany**
N.-E. Wiberg, **Sweden**
P. Wriggers, **Germany**



View of Ischia Island

Important Dates

Deadline for presenting one page abstract **30 October 2008**
Acceptance of the contributions and instructions for final submission **28 November 2008**
Deadline for submitting the final contribution and early payment **27 February 2009**
Hotel booking **available at the congress site**



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How to register and submit contributions

Authors are invited to submit their contributions on any of the conference topics. Submission of contributions and conference registration must be performed electronically via the conference web site.

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