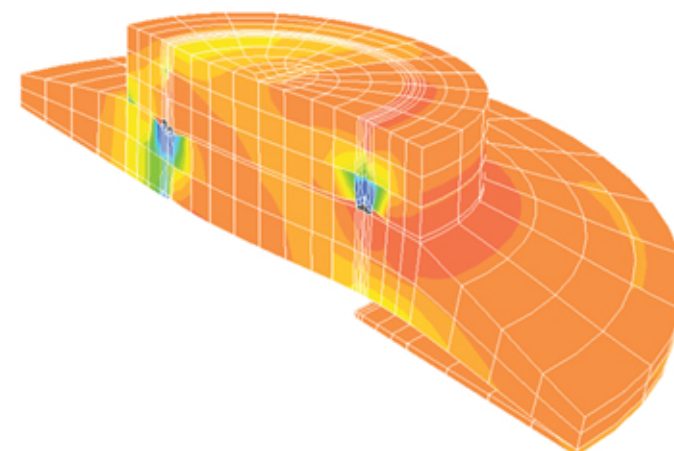




## CoRAN 2011

INTERNATIONAL CONFERENCE ON RECENT ADVANCES  
IN NONLINEAR MODELS - Structural Concrete Applications  
(CoRAN 2011)

24-25 November 2011, Coimbra, Portugal.



<http://www.dec.uc.pt/coran2011/>

### An ECCOMAS Thematic Conference

CoRAN 2011 is one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS). For further information on ECCOMAS visit: [www.eccomas.org](http://www.eccomas.org)

Welcome to Coimbra!



#### Registration Fees

The registration fees (in Euro), including social events, with early registration applicable if received before September 9th 2011 are:

	Early	Late
Delegates	350€	400€
Students	200€	250€

ECCOMAS members will have a 5% reduction on the delegate fees.

The Delegates Fee will include: Conference proceedings, attendance at all scientific sessions, coffee breaks, reception and banquet.

#### Accommodation

The organizers will arrange block reservations in different hotel categories, offering special rates to the CoRAN 2011 participants. More information will be available soon.

### Supporting Organizations

- European Community on Computational Methods in Applied Sciences (ECCOMAS)
- University of Coimbra (UC)
- Laboratory for the Concrete Technology and Structural Behaviour (LABEST)
- Faculty of Engineering, University of Porto (FEUP)
- National Laboratory for Civil Engineering, Lisbon (LNEC)

#### Conference Secretariat

Isabel Cristina Vasconcelos  
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## Introduction

The International Conference on Recent Advances in Nonlinear Models – Structural Concrete Applications (CoRAN 2011) is a joint initiative of the University of Coimbra, LABEST and LNEC included in the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS).

The CoRAN 2011 aims to publicize and discuss, in a forum on the state-of-art, the most recent models for nonlinear material analysis and advances on the numerical formulation of structural concrete behaviour, under combined external loads and ambient conditions.

The conference aims to identify the application of the new formulations in the design and analysis of concrete structures, specially referring to extreme conditions, and to encourage the discussion of engineering problems and expected solutions.

## Conference Topics (the list is not exhaustive)

- Non linear models for concrete structures
- Damage mechanics
- Fracture mechanics
- Rate dependency
- Dynamic effects
- Creep modelling
- Hydration of cement paste
- Early age concrete
- Thermo-mechanical models
- Multi-physics phenomena
- Multi-scale analyses
- Durability and environmental aspects
- Performance under extreme conditions (e.g. fire, blast and others).

### Plenary Lectures:

Plenary Lectures will be delivered by scientists of international prestige in the domain of the conference.

### Confirmed Plenary Lecturers:

#### Nenad Bicanic

University of Glasgow, UK

#### Koichi Maekawa

University of Tokyo, Japan

#### Herbert Mang

Technische Universität Wien, Áustria

### Organising Committee

**Helena Barros** (Conference Chair) University of Coimbra, Portugal

**Rui Faria**, Faculty of Engineering, University of Porto, Portugal

**Carlos Pina**, LNEC, Portugal

**Carla Ferreira**, University of Coimbra, Portugal

### Scientific Committee

#### Jorge Alfaiate

Instituto Superior Técnico and ICIST, Portugal

#### Joaquim Barros

Universidade do Minho and ISE, Portugal

#### Rita Bento

Instituto Superior Técnico, Portugal

#### Nenad Bicanic

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#### José Luís Bonet

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#### Aníbal Costa

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#### José Cesar de Sá

Faculdade de Engenharia da Universidade do Porto, Portugal

#### Vitor Dias da Silva

Universidade de Coimbra, Portugal

#### Luís Cruz Simões

Universidade de Coimbra, Portugal

### Important Information

Deadline for presenting two page abstracts	29-04-2011
Notification of abstract acceptance	17-06-2011
Deadline for paper submission and early fee payment	09-09-2011

Please send to:

**CoRAN 2011 Secretariat**  
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Rua Luis Reis Santos - Pólo II da  
Universidade.  
PORTUGAL  
3030-788 Coimbra

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24-25 November 2011, Coimbra, Portugal.  
How to register and submit contributions

Authors are kindly requested to submit two page abstracts on any of the Conference Topics. Submission of contributions and registration are performed electronically via the conference web site.

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