

# Boundary Elements and other Mesh Reduction Methods XXXIII

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## Contents

### Section 1: Advances in solid mechanics

- Probabilistic fatigue crack growth using BEM and reliability algorithms  
*E. D. Leonel & W. S. Venturini*..... 3
- Modification of Gauss-Chebyshev quadrature for modelling  
of crack growth in the field of residual stresses  
*A. N. Galybin & S. M. Aizikovich*..... 15
- A tangential differential operator applied to stress and  
traction boundary integral equations for plate bending  
including the shear deformation effect  
*L. Palermo Jr.*..... 25
- The BEM for buckling analysis of viscoelastic plates  
modelled with fractional derivatives  
*J. T. Katsikadelis & N. G. Babouskos*..... 35

### Section 2: Fluid flow applications

- BEM simulation of transient fluid flow phenomena  
*J. Ravník & L. Škerget*..... 49
- Devised numerical criteria for calculating the  
density diffusion in a water reservoir  
*M. Kanoh & T. Kuroki*..... 61
- Application of the boundary element method to 2D and  
3D bubble dynamics  
*Z. Fu & V. Popov*..... 73

Calculation of propeller's load noise using LES and BEM numerical acoustics coupling methods <i>Q. Yang, Y. Wang &amp; M. Zhang</i> .....	85
--	----

URANS and LES methodology for two-dimensional natural convection in a differentially heated cavity by BEM <i>L. Škerget &amp; J. Ravnik</i> .....	99
--	----

BEM simulations of diffraction-optimized noise barriers <i>S. Gasparoni, M. Haider, M. Conter &amp; R. Wehr</i> .....	111
--	-----

### Section 3: Computational methods

A shape sensitivity analysis approach based on the boundary element method <i>T. Matsumoto, T. Takahashi, K. Shibata &amp; T. Yamada</i> .....	121
---	-----

An efficient boundary element modeling of the time domain integral equations for thin wires radiating in a presence of a lossy media <i>D. Poljak, S. Antonijevic &amp; V. Doric</i> .....	133
---	-----

Stability issues in 3D BEM formulations for transient elastodynamics <i>C. G. Panagiotopoulos &amp; G. D. Manolis</i> .....	143
--	-----

A multi-domain boundary element analysis technique based on a row elimination-back-substitution method for solving large-scale engineering problems <i>X.-W. Gao &amp; J.-X. Hu</i> .....	153
--	-----

A boundary element formulation for axi-symmetric problems in poro-elasticity <i>M. H. Ozyazicioglu &amp; M. Yener Ozkan</i> .....	165
--	-----

### Section 4: Advanced formulations

The expedite boundary element method <i>N. A. Dumont &amp; C. A. Aguilar</i> .....	179
---	-----

A fundamental solution based FE model for thermal analysis of nanocomposites <i>H. Wang &amp; Q. H. Qin</i> .....	191
--	-----

On STEM of tectonic stress fields in tsunami regions <i>J. Irsa &amp; A. N. Galybin</i> .....	203
--	-----

**Section 5: Advanced meshless and mesh reduction methods**

Time integrations in solution of diffusion problems by local integral equations and moving least squares approximation <i>V. Sladek, J. Sladek &amp; Ch. Zhang</i> .....	217
The MFS for the detection of inner boundaries in linear elasticity <i>A. Karageorghis, D. Lesnic &amp; L. Marin</i> .....	229
IRBFN-based multiscale solution of a model 1D elliptic equation <i>D.-A. An-Vo, C.-D. Tran, N. Mai-Duy &amp; T. Tran-Cong</i> .....	241
A meshless solution of two dimensional density-driven groundwater flow <i>K. Kovarik</i> .....	253
V Evenly spaced data points and radial basis functions <i>L. T. Luh</i> .....	265
An efficient implementation of the radial basis integral equation method <i>E. H. Ooi &amp; V. Popov</i> .....	273
Forced vibrations of tanks partially filled with liquid under seismic load <i>V. Gnitko, U. Marchenko, V. Naumenko &amp; E. Strelnikova</i> .....	285
Solving heat transfer in a timber beam exposed to fire with methods based on radial basis functions (RBFs) <i>L. Vrankar, G. Turk, E. J. Kansa &amp; F. Runovc</i> .....	297
Moving least square – one dimensional integrated radial basis function networks for time dependent problems <i>D. Ngo-Cong, N. Mai-Duy, W. Karunasena &amp; T. Tran-Cong</i> .....	309
The radial basis integral equation method for 2D Helmholtz problems <i>H. Dogan &amp; V. Popov</i> .....	321
Meshless computation for partial differential equations of fractional order <i>P. H. Wen &amp; Y. C. Hon</i> .....	333
<b>Author index</b> .....	345



## LOCATION

The New Forest is one of the UK's premier tourist destinations. It offers various attractions for visitors all year round including picturesque forest villages as well as beautiful scenery. It is located in Southern England, spreading over 150 square miles of Hampshire. In the New Forest the well-being of the animals and the special needs of the countryside come first. The Forest is unarguably recognised as one of the most unique and important wilderness areas in Western Europe.

## CONFERENCE VENUE

Ashurst Lodge is the home of the Wessex Institute and is located in the beautiful New Forest. The Lodge is situated only 10km from the centre of Southampton. It has excellent rail connections with London (100km) and is reasonably close to the two main airports in Britain: Heathrow (90km) and Gatwick (120km).

Ashurst Lodge is an ideal venue for conferences and boasts a newly built conference centre, and an excellent standard of accommodation for visitors. The surroundings are equally attractive to those who enjoy walking, horse riding, cycling, sailing and fine landscapes.

## DISPLAY FACILITIES

There will be space for organisations to display products, services and literature related to the theme of the conference. Further details are available from the Conference Secretariat.



## BENEFITS OF ATTENDING

- Conference papers are peer-reviewed by members of the International Scientific Advisory Committee and other colleagues. Papers are rapidly processed for publication in **hard-cover** and **digital** book form. The books are available to delegates at registration and are also widely distributed throughout the world by WIT Press.
- Papers are also available in **digital format** to the international scientific community through the Wessex Institute eLibrary <http://library.witpress.com>
- Conference participants will be invited to submit an extended version of their paper to the **International Journal of Engineering Analysis with Boundary Elements (EABE)** associated with WIT.
- Papers presented at Wessex Institute conferences appear regularly in notable reviews, publications and databases.
- The opportunity to present your research within a unique forum and collaborate with experts from around the world.

## ENQUIRY FORM

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Please indicate your intention below:

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- I intend to participate in the conference, but will not be submitting a paper.

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By completing this form, we understand that you are agreeable to receiving further information on this event and other activities which we believe will interest you. We will not disclose this information to third parties. Wherever possible information about this conference will be sent to you by email.

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## INTRODUCTION

The conference on Boundary Elements and Mesh Reduction Methods is the recognised international forum for the presentation and discussion of the latest advances in these methods and their applications in science and engineering.

The continuous success of the conference since the first meeting took place in 1978 indicates the strength of the research carried out by different groups around the world. The history of this conference, now in its 33rd annual meeting, traces the evolution of advanced methods since the first successful development of boundary integral techniques into BEM took place to the recent and most sophisticated Mesh Reduction Methods. The objective of the meetings is the further development of technologies that reduce or eliminate the type of meshes required by first generation computational methods such as finite differences and finite elements. The aim is being achieved first through the emergence of BEM as a method that eliminates the need for an internal mesh and more recently through the development of a series of advanced techniques for further mesh reduction approaches culminating in the emergence of meshless methods.

Since 1978 the conference has produced a series of volumes in which all major developments in the field have been represented. This valuable collection has been available in digital form since 1993 when the volumes started to be archived in the library of the Wessex Institute (<http://library.witpress.com>) where they can be easily accessed by the international scientific community.

## WHO SHOULD ATTEND

The BEM/IRM conference attracts a substantial number of well established and leading researchers in the field. The meetings have always had a special appeal to young researchers and are characterised by a friendly atmosphere in which delegates at different stages of their careers can interact with each other.

Engineers and scientists within the areas of numerical analysis, boundary elements and meshless methods will benefit from attending the meeting.

## CONFERENCE TOPICS

- Advanced meshless and mesh reduction methods
- Heat and mass transfer
- Electrical engineering and electromagnetics
- Fluid flow
- Advanced formulations
- Computational techniques
- Advanced structural applications
- Dynamics and vibrations
- Damage mechanics and fracture
- Material characterisation
- Financial engineering applications
- Stochastic modelling
- Emerging applications

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## EABE MEETING

The Annual Meeting of the Editorial Board of the International Journal of Engineering Analysis with Boundary Elements and other Mesh Reduction Methods (EABE) will take place during the conference. The Journal has successfully become the main publication not only for Boundary Elements but for many other papers in the important field of mesh reduction techniques.

## SUBMISSION INFORMATION

Papers are invited on the topics outlined and others falling within the scope of the meeting. Abstracts of no more than 300 words should be submitted **as soon as possible**. We strongly encourage the submission of abstracts online.

Abstracts should clearly state the purpose, results and conclusions of the work to be described in the final paper. Final acceptance will be based on the full-length paper, which if accepted for publication, must be presented at the conference. To be fair to all participants, each registered delegate will only be able to submit one paper. *The language of the conference will be English.*

## Journal Submission

Delegates attending BEM/IRM 2011 will be invited to submit an expanded version of their paper for publication in the International Journal of Engineering Analysis with Boundary Elements (EABE), associated with the Wessex Institute of Technology.

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We strongly believe that removing barriers to research published online will greatly aid progress in many scientific and technical disciplines.

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Please submit your abstract with BEM / MRM 2011 in the subject line. Include your name, full address and conference topic.

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Fax or mail a copy of your abstract with the completed Enquiry Form overleaf to the secretariat below.

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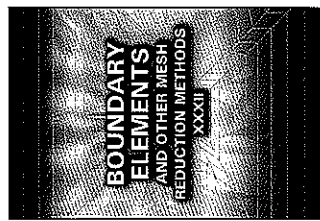
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Papers presented at Wessex Institute conferences are referenced by Crossref and regularly appear in notable reviews, publications and databases, including referencing and abstract services - Scopus, Compendex, ISI Web of Knowledge, Index to Scientific & Technical Proceedings, ProQuest and Scitech Book News. All conference books are archived in the British Library and American Library of Congress.

In addition the conference papers will be:

- Published by WIT Press in a volume of WIT Transactions on Modelling and Simulation in paper and digital format (ISSN:1746-4064).
  - Available to conference delegates at the time of registration as a hardcover volume.
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