

Conference Programme

International Conference on

Boundary Element and Meshless Techniques

BeTeq 2018

Conference Venue: NH Hotel

NH Málaga

Calle San Jacinto, 2, 29007, Málaga

<http://www.nh-hotels.com/nh/en/hotels/spain/malaga/nh-malaga.html>



Lunches:

9th July

Salad with feta cheese, black olives, cucumber and yogurt and mint sauce

Baked hake with garlic, basil and oil dressing and vegetables

Chocolate, cream and raspberry sponge cake

Wine, Water, Beer, Soft drink and Coffee.

10th July

Tiagliatelle with mushroom and vegetables with cuttlefish

Pork cheek with wine, red peppers chutney and sauté

Strawberry and meringue cake with cream

Wine, Water, Beer, Soft drink and Coffee.

(none Pork option will be provided upon request).

11th July

Puff pastry filled with rock fish with saffron sauce

Baked poultry with cumin sauce

Baked cheese cake with red fruits

Wine, Water, Beer, Soft drink and Coffee.

Lunches for delegates are included in the conference registration fee.

For accompanying persons, please pay 30€ per day (Cash) at the registration desk. Please notify Ferri Aliabadi at least 5 days before, as the hotel requires the exact number in advance.

Day 1: 9th July 2018	
8.45	Registration
9.15	Welcome address
Session 1	Chair: Felipe García Sánchez
9..30	A quasi-static delamination model with interface damage and friction for layered structures Roman Vodička, Filip Kšiňan
10.00	An IGABEM application in damage mechanics V. Mallardo, E. Ruocco, and G. Beer
10.30	Break
Session 2	Chair: Roman Vodička
11.00	Identification of heat fluxes based on strain measurement and meshfree methods A. Khosravifard, A. Razavi, M.R. Hematiyan
11.30	A Study on Spring-Dashpot Equivalency for the Dynamic Response of Piled Rafts: the Extent to which Energy Transmission through the Soil can be Disregarded PLA. Barros, J. Labaki, LF Lima and E. Mesquita
12.00	BEM Analysis of Thermoelastic Stresses in 3D Generally Anisotropic Solids Embedded with Non-uniform Heat Source YC. Shiah and Nguyen Anh Tuan
12.30	Complex-step assessment of shape sensitivity for the 3D indentation problem C Ubessi, R.J. Marczak and FC. Buroni
13.00	Lunch
Session 3	Chair: M.R. Hematiyan
14.00	Hypersingular Boundary Integral Equation for harmonic acoustic problems in 2.5D domains J. Pizarro-Ruiz, E. Puertas and R.Gallego
14.30	The boundary element method: a simple code for the arbitrarily high accurate anal of 2D static and frequency-domain problems of general topology and shape NA. Dumont, Wellington T. de Carvalho and CA. Aguilar
15.00	Boundary Element Analysis of Damage Detection in Plates Using In-Plane Ultrasonic Waves Jun Li, Z. Sharif Khodaei, M.H. Aliabadi
15.30	Break
Session 4	Chair: V. Gulizzi
16.00	Boundary element analysis of fractured CNT-polymer nanocomposites F. García-Sánchez, E. García-Macías, L. Rodríguez-Tembleque, and A. Sáez
16.30	An Efficient Fluid-Rigid Body Interaction Simulation of a 2 DOF Oscillating Wing Energy Harvester D. Talarico, A. Mazzeo, and M. Denda
17.00	A hierarchic constitutive governed recursive methodology for obtaining three-dimensional anisotropic fundamental solution: a theoretical approach Tales V. Lisbôa, Rogério J. Marczak
17.30	Methodology for automatic integration of nearly and weakly singular integrals arising in the boundary element method JDR. Bordón, JJ. Aznárez and O. Maeso
18.00	Meshless intervention point (MIP) method for inferior singular elasticity problems with irregular domains J.J. Yang, P.H. Wen
19.30	Welcome Reception Dinner at restaurant La Cueva 1900 (alongside the Marina). Included in the delegates registration fee. Accompanying persons are asked to pay at the registration desk on the morning of 9th July.

Day 2: 10th July 2018	
Session 6	Chair: V Mantic
9.00	The Application of BEM to MHD flow and heat transfer in a rectangular duct with temperature dependent viscosity E. Ebrén Kaya and M. Tezer-Sezgin
9.30	High-cycle fatigue in polycrystalline materials by boundary elements I. Benedetti, V. Gulizzi
10.00	The seismic site effects study of adjacent non-curved valleys based on boundary element method Z Khakzad, B.Gatmiri and D.Amini
10.30	Break
Session 7	Chair: L. Rodríguez-Tembleque
11.00	Inference of the Equivalent Initial Flaw Size Distribution with the Boundary Element Method using Maximum Likelihood Estimation L.Morse, Z.Sharif-Khodaei and M. H.Aliabadi
11.30	Fundamental coupled MHD viscous flow and electric potential produced by a point force located in a conducting liquid bounded by two parallel plane solid walls A. Sellier
12.00	Meshfree analysis of viscoplastic problems using different domain integration techniques Z Kazemi, M.R. Hematiyan (Presenter) and A. Khosravifard
12.30	A Boundary Integral velocity representation of the steady Navier-Stokes equations for a body in an exterior domain uniform flow field E. Chadwick
13.00	Lunch
Session 8	Chair: I. Benedetti
14.00	Green element and Shuffled Complex Evolution methods for groundwater contaminant source identification E.Onyari, A.Taigbenu and J. Ndiritu
14.30	Java application to solve thermoelastic contact problems using the Boundary Element Method J. Vallepuga-Espinosa, L. Sánchez-González and I. Ubero-Martínez
15.00	Approximated Fundamental Solutions Based on Levi's Functions, R.Gallego and E. Puertas
15.30	Break
Session 5	Chair: Vincenzo Mallardo
16.00	Somigliana Identity for Unbounded Cone-Shaped Domains V. Mantič
16.30	Particle-wall interactions in axisymmetric MHD viscous flow A.Sellier and S. H. Aydin
17.00	Simulation of Stokes flows with solid particles using the Sparse Cardinal Sine Decomposition (SCSD) F. Alouges, M. Aussal, A. Lefebvre-Lepot, F. Pigeonneau, A. Sellier
17.30	3D frictional contact analysis with Boundary Element Method and discontinuous elements using a Generalized Newton Method with line search Cristiano J.B. Ubessi , Rogério J. Marczak
18.00	Micro dynamic failure of 2D crystal aggregate structures using BEM and a hierarchical multiscale cohesive zone model J. E. Alvarez, A F. Galvis and P. Sollero
	End of Day 2 20.00 Conference Dinner (delegates registered for dinner)

Please let Ferri Aliabadi know if you wish to have cod "ajoarriero" for main instead Veil Sirloin before 29th of June.

Day 3: 11th July 2018	
Session 10	Antoine Sellier
9.00	Mesh generation in three-dimensional boundary element problems FM. Loyola, EL. Albuquerque
9.30	The Method of Fundamental Solutions for Two-Dimensional Stationary Thermoelastic Problems Involving Curved Line Heat Sources M. Mohammadi, MR. Hematiyan
10.00	New Approach with Domain Superposition to Solve Piecewise Homogeneous Elastic Problems LOC. Lara, C F. Loeffler, JP. Barbosa, WJ. Mansur
10.30	Break
Session 11	Chair: Ferri Aliabadi
11.00	A couple-stress formulation for the boundary element method G. Hattori, P.A. Gourgiotis, J. Trevelyan
11.30	Boundary element contact modelling of CNT-polymer reinforced composites L. Rodríguez-Tembleque, E. García-Macías and A. Sáez
12.00	Bimodular materials with finite block method in polar coordinate QX. Pan, JL. Zheng, PH. Wen and MH. Aliabadi
12.30	Application of SPR for Discontinuous Boundary Elements Results in 2D Elasticity and a New Method to Evaluate Tangential Stress Otávio A. A. da Silveira, Rogério J. Marczak
13.00	Analysis of Fast Multipole Boundary Element Method for anisotropic plane problems with different types of iterative solvers A.F. Dias. Jr, E. L. Albuquerque., L. V. Campos
13.30	Lunch
	End of the Conference

19.30

