

**Tentative Program
of ICOME 2015**

Hangzhou, China, October 11-13, 2015

(20150930v2)

Tentative Program

Oct. 11, Morning, Huagang Hall (8th Floor)

- 09:00 – 09:50 Opening Ceremony (Combined Conferences 1 and 2)
- 09:50 – 10:30 Plenary Lecture 1: (Andreas Karageorghis)
- 10:30 – 11:10 Group Photo Taking and Tea Break
- 11:10 – 11:50 Plenary Lecture 2: (Chein-Shan Liu)
- 11:50 – 12:30 Plenary Lecture 3: (Zhenhan Yao)
- 12:30 – 13:30 Lunch (Chinese Restaurant, 3rd Floor)

Oct. 11, Afternoon, Huagang Hall (8th Floor)

- 14:00 – 14:40 Plenary Lecture 4: (Naoshi Nishimura)
- 14:40 – 15:20 Plenary Lecture 5: (Jeng-Tzong Chen)
- 15:20 – 15:40 Tea Break

Oct. 11, Afternoon, Parallel Sessions

Time	Conference 1			Conference 2	
	Huagang Hall (8th Floor)	Yunqi Hall (3rd Floor)	Wolong Hall (3rd Floor)	Huanbi Hall (3rd Floor)	Guiyu Hall (3rd Floor)
15:50 – 17:40	BEM-1	FEM-1	MF/MPM-1	MFS-1	RBF-1
18:00 – 19:30	Reception (Chinese Restaurant, 3rd Floor)				

Oct. 12, Morning, Parallel Sessions

Time	Conference 1			Conference 2	
	Huanglong Hall (8th Floor)	Yunqi Hall (3rd Floor)	Wolong Hall (3rd Floor)	Huanbi Hall (3rd Floor)	Guiyu Hall (3rd Floor)
09:00 – 10:40	BEM-4	FEM-2	MF/MPM-2	MFS-2	RBF-2
10:40 – 11:00	Tea Break				
11:00 – 12:30	BEM-5	FEM-3	MF/MPM-3	MFS-3	Trefftz-1
12:30 – 13:30	Lunch (Western Restaurant, 1st Floor)				

Oct. 12, Afternoon, Parallel Sessions

Time	Conference 1			Conference 2	
	Huanglong Hall (8th Floor)	Yunqi Hall (3rd Floor)	Wolong Hall (3rd Floor)	Huanbi Hall (3rd Floor)	Guiyu Hall (3rd Floor)
13:30 – 15:20	BEM-7	FEM-4	BEM-2	MFS-4	Trefftz-2

15:20 – 15:40	Tea Break				
15:40 – 17:30	BEM-8	FEM-5	BEM-3	MFS-5	BEM-1
18:00 – 19:30	Banquet (Western Restaurant, 1st Floor)				

Oct. 13, Morning, Parallel Sessions

Time	Conference 1			Conference 2	
	Huanglong Hall (8th Floor)	Yunqi Hall (3rd Floor)	Wolong Hall (3rd Floor)	Huanbi Hall (3rd Floor)	Guiyu Hall (3rd Floor)
09:00 – 10:40	BEM-9	BEM-6	BFM-1	FIM-1	RBF-3
10:40 – 11:00	Tea Break				
11:00 – 12:50	BEM-10	FEM-6		FEM-1	BEM-2
12:50 – 13:50	Lunch (Western Restaurant, 1st Floor)				

Oct. 13, Afternoon, Tour

Plenary Lectures

Date: Oct. 11 (Sunday) Time: 09:50 – 15:20 Place: Huagang Hall (8th Floor) Chair:

Time	Lectures	Authors	Titles
09:50 – 10:30	Plenary 1	Andreas Karageorghis	Recent developments in the MFS and future challenges
11:10 – 11:50	Plenary 2	Chein-Shan Liu	The polynomial Trefftz method for solving backward and inverse source wave problems
11:50 – 12:30	Plenary 3	Zhenhan Yao	A New Type of High-Performance BEM and Local Stress Analysis of Real Beam, Plate and Shell Structures
14:00 – 14:40	Plenary 4	Naoshi Nishimura	Applications of FMBEM to optical problems related to metamaterials
14:40 – 15:20	Plenary 5	Jeng-Tzong Chen	A self-regularized method for singular systems in the BEM and the FEM

Session BEM-1

Date: Oct. 11 (Sunday) Time: 15:50 – 17:40 Place: Huagang Hall (8th Floor) Chair:

Time	Authors	Titles	Notes
15:50 – 16:20	Sohichi Hirose, Akira Furukawa, Takahiro Saitoh	Convolution Quadrature Boundary Element Method for Dynamic Crack Analysis in a General Anisotropic Elastic Solid	Keynote
16:20 – 16:40	Taizo Maruyama, Takahiro Saitoh, Sohichi Hirose	Fast Time-domain BEM for Three-dimensional Crack Problems	Invited
16:40 – 17:00	Xiaobin Feng, Taiyan Qin, Linnan Zhang, Ting Cao	Application of Singular Integral Equations to Crack Problems in Piezoelectric Bimaterials	
17:00 – 17:20	Yunqiao Dong, Jianming Zhang, Guizhong Xie, Chenjun Lu, Lei Han	Evaluating Stress Intensity Factors for Three-Dimension Corner Crack Problems	

Session FEM-1

Date: Oct. 11 (Sunday) Time: 15:50 – 17:40 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:50 – 16:20	Song Cen, Yi Bao	Shape-free Hybrid Stress-Function Elements with drilling degrees of freedom for Crack Propagation Simulation	Keynote
16:20 – 16:40	Deng Feng, Shengping Shen	The mixed finite element method considering Flexoelectric effects	
16:40 – 17:00	Cong Xie, Guangyu Shi	An accurate FGM beam element based on a refined shear deformable beam theory	

17:00 – 17:20	Peilei Zhou, Song Cen, Zhuren Sun	An unsymmetric 5-node plane quadrilateral membrane element based on analytical trial function method	
17:20 – 17:40	Xi Zhao, Yang Ju, Jianguo Wang	Numerical study on the hydro-fracturing perforation effects of reservoirs using high performance finite element methods	

Session MF/MPM-1

Date: Oct. 11 (Sunday) Time: 15:50 – 17:40 Place: Wolong Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:50 – 16:20	Dongdong Wang, Hanjie Zhang, Penjie Chen	Isogeometric Enriched Quasi-Convex Meshfree Method	Keynote
16:20 – 16:40	Douglas Ng, Benny Hon	Kernel-Based Approximation Method for Medical Imaging Problem	Invited
16:40 – 17:00	Hanjie Zhang, Dongdong Wang, Wei Liu	Superconvergent Isogeometric Analysis of Thin Plate Vibrations	
17:00 – 17:20	Xiaolin Li Jialin Zhu	Analysis and applications of two moving least square approximation-based meshless methods	

Session MFS-1

Date: Oct. 11 (Sunday) Time: 15:50 – 17:40 Place: Huanbi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:50 – 16:20	Carlos J. S. Alves	Implementation of the MFS for nonlinear problems and discontinuous data	Keynote
16:20 – 16:40	Cheng-Yu Ku, Jing-En Xiao, Chia-Ming Fan, Chih-Yu Liu, Weichung Yeih	Numerical Solutions of Groundwater Flow in Layered Soil Using the Method of Fundamental Solutions	
16:40 – 17:00	Magdalena Mierzwiczak, Jan Adam Kolodziej, Jakub Krzysztow Grabski	The generalized Newtonian fluid flow through a bundle of regular fibers	
17:00 – 17:20	Yan Gu, Hongwei Gao, Wen Chen	Stress Analysis for Thin Multilayered Coating Systems using the Fast-multipole Accelerated Singular Boundary Method	

Session RBF-1

Date: Oct. 11 (Sunday) Time: 15:50 – 17:40 Place: Guiyu Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:50 – 16:20	Robert Schaback	Rigorous Convergence Analysis of Meshless Computational Methods	Keynote

16:20 – 16:40	Wen Chen, Fajie Wang, Zhuojia Fu	Physics-based time-space RBFs for dynamic interpolation	
16:40 – 17:10	H. Power, S. J. Jackson, D. Stevens, D. Giddings	A high resolution RBF local meshless tracking approach for moving boundary transport problems	Keynote

Session BEM-4

Date: Oct. 12 (Monday) Time: 09:00 – 10:40 Place: Huanglong Hall (8th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:30	Haibo Chen, Leilei Chen	Structural-acoustic sensitivity analysis for fully coupled system based on FEM/ discontinuous FMBEM	Keynote
09:30 – 09:50	Liang Yang, Zhenlin Ji	Acoustic attenuation prediction of perforated silencers using fast multipole mixed-body boundary element method	Invited
09:50 – 10:10	Jinlong Feng, Xiaoping Zheng, Yinghua Liu, Zhenhan Yao	A High-Accuracy Boundary Element Method for Solving Acoustic Problems	
10:10 – 10:30	Cheng Liu, Leilei Chen, Wenchang Zhao, Haibo Chen	A wide-band FMBEM for 2D noise barrier using different types of elements	

Session FEM-2

Date: Oct. 12 (Monday) Time: 09:00 – 10:40 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:30	Chia-Ming Fan, Tsung-Han Li, Chien-Chung Chang, Po-Wei Li, Yu-Kai Huang	Generalized finite difference method for solving inverse Cauchy problems	Keynote
09:30 – 10:00	Ran Guo, Rui Zhang, Benning Qu, Yangjin Chen	FEM-VCFEM multiscale simulation of damage evolution and fracture in macro-structure of particulate reinforced composites	Keynote
10:00 – 10:20	Zeyun Chen, Weifeng Yuan	A Cellular Automaton Method for Elastostatics	Invited
10:20 – 10:40	Yijiang Peng, Yao Wang	Meso-mechanics Analysis of Recycled Aggregate Concrete Using 3D Base Force Element Method	

Session MF/MPM-2

Date: Oct. 12 (Monday) Time: 09:00 – 10:40 Place: Wolong Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
09:00 –	Yan Liu, Ping Liu, Xiong	Shielding Performance of Honeycomb Sandwich	Invited

09:20	Zhang	Structure for High-velocity Impact: A Numerical Investigation	
09:20 – 09:40	Hasitha-Nayanajith Polwaththe-Gallage, Yuantong Gu	A 3D coupled SPH-DEM model to predict the behavior of infected red blood cells in stenosed capillaries	Invited
09:40 – 10:00	Xiayong. Gu, Chunying Dong	Simulation of transient heat conduction for a stationary medium using the material point method	
10:00 – 10:20	Fan Zhang, Xiong Zhang	Fluid structure interaction based on incompressible material point method coupling with rigid body	

Session MFS-2

Date: Oct. 12 (Monday) Time: 09:00 – 10:40 Place: Huanbi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:30	Csaba Gaspar	A Multi-Level Method of Fundamental Solutions Without an Explicit Use of Fundamental Solutions	Keynote
09:30 – 09:50	Zhuojia Fu, Wen Chen	Water Wave Interaction with Multiple Circular and Elliptical Cylinders by Singular Boundary Method	Invited
09:50 – 10:10	Wen Chen, Junpu Li, Zhuojia Fu	SBM based on time-dependent fundamental solution for Scalar Wave Equation	
10:10 – 10:30	Yu-Kai Huang, Chia-Ming Fan	Numerical solutions of Signorini problems by singular boundary method	

Session RBF-2

Date: Oct. 12 (Monday) Time: 09:00 – 10:40 Place: Guiyu Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:30	Der-Liang Young, Chung-Yi Lin	The localized method of approximated particular solutions for solving incompressible Navier-Stokes equations	Keynote
09:30 – 09:50	Siqing Li, Leevan Ling, Ming Li	Node-based Smoothed Point Interpolation Method with Shape function Based Gaussian Basis Functions	
09:50 – 10:10	Chia-Cheng Tsai	Using local RBF collocation method with coupled equation approach for solving high-order radiation boundary conditions	Invited
10:10 – 10:30	Ji Lin, Wen Chen, C. S. Chen	A New Scheme for the Solution of Reaction Diffusion and Wave Propagation Problems	

Session BEM-5

Date: Oct. 12 (Monday) Time: 11:00 – 12:30 Place: Huanglong Hall (8th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:30	Martin Schanz, Wenjing Ye, Jinyou Xiao	On the relationship between Convolution Quadrature Method and Frequency Domain Approach in the modeling of wave propagation	Keynote
11:30 – 11:50	Hitoshi Yoshikawa, Satoshi Yamamoto	Time domain BIEM for scalar wave problems in 2-D using H-matrix and low rank approximation	Invited
11:50 – 12:10	Ryota Misawa, Kazuhi Niino, Naoshi Nishimura	Analysis of resonance frequencies in waveguide problems for Helmholtz' equation in 2-D using the Sakurai-Sugiura projection method	Invited
12:10 – 12:30	Liqi Liu, Haitao Wang	A Comparative Study on the Time Domain BEM Analysis of 3-D Wave Propagations	

Session FEM-3

Date: Oct. 12 (Monday) Time: 11:00 – 12:30 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:30	Ning Hu, Yaolu Liu	Construction of a Mindlin Plate Element For Analysis of Structural Static and Dynamic Responses and Elastic Wave Propagation	Keynote
11:30 – 11:50	Kazuhisa Abe, Shun Furusato, Pher Errol Balde Quinay, Kazuhiro Koro	Dynamic Response Analysis of a Periodic Structure on a Half-Space Subjected to Incident Waves	Invited
11:50 – 12:10	Jie Zhang, Donghuan Liu, Yinghua Liu	Accuracy of a composite implicit time integration scheme for damped linear structural dynamics	
12:10 – 12:30	Zhiwei Liu, Yuefang Wang	A Semi-Analytical, Semi-Numerical Method for Predicting Period-M Motions of Nonlinear Systems	

Session MF/MPM-3

Date: Oct. 12 (Monday) Time: 11:00 – 12:30 Place: Wolong Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:30	Wen Chen, Fajie Wang	Singular boundary method using time-dependent fundamental solution for diffusion problems	Keynote
11:30 – 11:50	Ying-Te Lee, Chia-Ming Fan, Shyh-Rong Kuo	A nonsingular boundary collocation method for the inverse problems in elasticity	Invited
11:50 – 12:10	Wenzhen Qu, Wen Chen, Changjun Zheng	Fast Multipole Singular Boundary Method in Diagonal Form for Acoustic Radiation and Scattering	
12:10 – 12:30	Po-Wei Li, Chia-Ming Fan	A characteristic-based meshless model for numerical solutions of shallow water equations	

Session MFS-3

Date: Oct. 12 (Monday) Time: 11:00 – 12:30 Place: Huanbi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:30	Jan Adam Kolodziej, Magdalena Mierzwiczak, Jakub Krzysztof GrabskiSarler	Application of the MFS and the SPTF for determination of flow through fibrous porous media	Keynote
11:30 – 11:50	Jakub Krzysztof Grabski, Jan Adam Kolodziej	Application of the MFS and the RBF for analysis of fluid flow and heat transfer in s tube with internal triangular fins	
11:50 – 12:10	Alexander H.-D. Cheng	Fundamental Solutions of Poroelasticity, Poroelastodynamics, and Poroelastothermoelasticity	Invited
12:10 – 12:30	Xiangnan Pei, Fangfang Dou	The method of approximate fundamental solutions for solving Laplace equation with non-harmonic boundary condition	

Session Trefftz-1

Date: Oct. 12 (Monday) Time: 11:00 – 12:30 Place: Guiyu Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:30	Krzysztof Grysa, Artur Maciag, Magdalena Walaszczyk	Trefftz method in solving nonlinear coefficient inverse heat conduction problems	Keynote
11:30 – 11:50	Amin Ghannadial	Solution for the Free Vibration of Simply Supported Annular Plates by Indirect Trefftz Method	
11:50 – 12:10	Krzysztof Grysa, Artur Maciag, Patrycja Krzyszkowska	Solving nonlinear direct and inverse transient heat conduction problems by means of Trefftz functions	Invited
12:10 – 12:30	Chung-Lun Kuo, Wun-Sin Jhao, Chein-Shan Liu	The multiple-scale polynomial Trefftz method for solving inverse heat conduction problems	Keynote

Session BEM-7

Date: Oct. 12 (Monday) Time: 13:30 – 15:20 Place: Huanglong Hall (8th Floor) Chair:

Time	Authors	Titles	Notes
13:30 – 14:00	Huanlin Zhou, Yu Tian, Bo Yu, Zhngong Niu	The natural boundary integral equation of the orthotropic potential problem	Keynote
14:00 – 14:20	Kazuki Niino, Sho Akagi, Naoshi Nishimura	A discretisation method with the Hdiv inner product for electric field integral equations with the Calderon preconditioning	Invited

14:20 – 14:40	Fenglin Zhou, Yuan Li, Jianming Zhang	A time step amplification scheme in boundary face method for transient heat conduction	
14:40 – 15:00	Bo Yu, Huanlin Zhou Haolong Chen	Precise time-domain expanding BEM for solving non-Fourier heat conduction problems with laser heat sources	
15:00 – 15:20	Haolong Chen, Bo Yu, Huanlin Zhou	Shape identification of 2-D steady state heat conduction problem with heat source	

Session FEM-4

Date: Oct. 12 (Monday) Time: 13:30 – 15:20 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
13:30 – 14:00	De'an Hu, Detao Wan, Xu Han	A Reduced Integration Coupling with the Smoothing Technique for the Axisymmetric Problem	Keynote
14:00 – 14:20	Ji Wang, Lihong Wang, Rongxing Wu, Bin Huang, Jianke Du, Wei Xiang	Tuning and Optimizing the Element Analysis with Elements of Large Nodal DOF on a Linux Cluster	
14:20 – 14:40	Peng Zhang, Xiaofei Hu, Weian Yao	Cohesive crack propagation analysis using an analytical singular element	
14:40 – 15:00	Dinghe Li	Extended Layerwise method of laminated composite shells	

Session BEM-2

Date: Oct. 12 (Monday) Time: 13:30 – 15:20 Place: Wolong Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
13:30 – 14:00	Zhongrong Niu, Renyu Ge, Changzheng Cheng, Zongjun Hu	Extended BEM of Evaluating Stress Intensity Factors of V-notch Perpendicular to an Interface with Bounded Dissimilar Materials	Keynote
14:00 – 14:20	Shibo Wang, Minghao Zhao, Guangtao Xu, Cuiying Fan, Ernian Pan	Fracture analysis of a cracked dielectric plate via a novel boundary element method	
14:20 – 14:40	Changzheng Cheng, Shenyu Ge, Zongjun Hu, Zhongrong Niu	Evaluation of thermal stress intensity factors of V-notch by the boundary element method	
14:40 – 15:00	Chunguang Zhou, Minghao Zhao, Guangtao XU, Cuiying Fan	Numerical Method of Penny-Shaped Cracks in Three-dimensional Piezoelectric Semiconductors	

Session MFS-4

Date: Oct. 12 (Monday) Time: 13:30 – 15:20 Place: Huanbi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
13:30 – 14:00	Anita Uscilowska, Agnieszka Fraska	The torsion of orthotropic FGM hollow bars – simulations by MFS	keynote
14:00 – 14:20	Sarler Bozidar, Shiting Wen, Rizwan Zahoor, Kai Wang, Ming Li	Method of Regularized Sources for Axisymmetric Stokes Flow Problems - Development of Analytical Expressions	
14:20 – 14:40	Wataru Fujisaki, Hayato Kubota	Improved Allocations of Source Loads for Notched Plate Problems using the MFS	Invited
14:40 – 15:00	C. S. Chen, Andrea Karageorghis, Yan Li	On choosing the location of the sources in the MFS	

Session Trefftz-2

Date: Oct. 12 (Monday) Time: 13:30 – 15:20 Place: Guiyu Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
13:30 – 13:50	Cheng-Yu Ku, Jing-En Xiao, Chih-Yu Liu	On Solving Three-dimensional Inverse Cauchy Problems For The Laplace Equation Using the Method of Fundamental Solutions and the Collocation Trefftz Method	
13:50 – 14:10	Guan-Yu Lin, Tzon-Tzer Lu	Transition of Convergent Orders of Trefftz Method	Invited
14:10 – 14:30	Tao Zhang	Application of a modified Trefftz method in Cauchy inverse problems of two dimensional & three dimensional elasticity	

Session BEM-8

Date: Oct. 12 (Monday) Time: 15:40 – 17:30 Place: Huanglong Hall (8th Floor) Chair:

Time	Authors	Titles	Notes
15:40 – 16:10	Yao Zheng, Zhoufang Xiao, Jianjun Chen, Jianjing Zheng	Viscous grid generation by the boundary element method	Keynote
16:10 – 16:30	Z.Y. Liu, C.Y. Dong	Boundary element and material point coupling method for high speed metal cutting	
16:30 – 16:50	Leilei Chen, Haobo Chen	Numeric performance of structure fluid interaction using a coupled approach with FEM and discontinuous BEM	
16:50 – 17:10	Xiaomin Shu, Jianming Zhang, Xingshuai Zheng	Enriched element for three-dimensional elastic contact problem with non-conforming discretization	

Session FEM-5

Date: Oct. 12 (Monday) Time: 15:40 – 17:30 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:40 – 16:00	Yonggang Zheng, Yin Liu, Hongwu Zhang	Finite element modeling of polymeric hydrogels: from steady to transient solutions	Invited
16:00 – 16:20	Pei Zheng, Boyang Ding	Body Force Equivalents for Dynamic Dislocations in Fluid-Saturated Porous Media	
16:20 – 16:40	Jinhui Liu, Yang Ju, Hongbin Liu	Investigation on thermal spalling behavior of reactive powder concrete	
16:40 – 17:00	Jiansheng Zhang, Weihang Li, Jiandong Wang, Jin Tao, Liping Wu	Field measurements of wind characteristics on hyperbolic parabolic membrane structure	
17:00 – 17:20	Jiansheng Zhang, Jin Tao, Jiandong Wang, Weihang Li	Numerical simulation study of wind load on multi-span saddle membrane structure	

Session BEM-3

Date: Oct. 12 (Monday) Time: 15:40 – 17:30 Place: Wolong Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:40 – 16:10	Hang Ma	Computation of Stress Intensity Factors of Cracks in Particle and Matrix with Dual Boundary Integral Equations	Keynote
16:10 – 16:30	Zhongrong Niu, Renyu Ge, Changzheng Cheng, Zongjun Hu	Extended BEM of Determinating the Singular Stress Field and the Boundary Shape of Plastic Domain of Plane V-notch in Hardening Materials	
16:30 – 16:50	Qinye Lin, Yongqiang Chen	Application of BEM on Analysis of Interface Debonding	
16:50 – 17:10	Qi Zhou, Yongqiang Chen	BEM Simulation of Interface Debonding due to Thermomechanical Loading	

Session MFS-5

Date: Oct. 12 (Monday) Time: 15:40 – 17:30 Place: Huanbi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:40 – 16:10	Liviu Marin	The MFS approach to some inverse problems in solids subject to thermo-mechanical loads	Keynote
16:10 – 16:30	Jakub Krzysztof Grabski, Daniel Lesnic, B. Tomas Johansson	Application of the MFS for identification of the time-dependent blood perfusion coefficient with internal temperature measurements	
16:30 – 16:50	Anita Uscilowska, Marta Chudzicka-Adamczak	Comparison of the Temperature Distribution as a Result of Computer Simulation using the Method of	

16:50 – 17:10	Fang Hao, Hui Lv, Wanru Chang, C. S. Chen	Comparison of Trefftz method and the MFS on the non-harmonic boundary condition and irregular boundary	
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Session BEM-1

Date: Oct. 12 (Monday) Time: 15:40 – 17:30 Place: Guiyu Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
15:40 – 16:00	Xianhui Wang	A multi-frequency technique for Helmholtz boundary element method	
16:00 – 16:20	Qiao Wang, Wei Zhou	Fast multipole line integration method for treatment of domain integrals in boundary element method	
16:20 – 16:40	Yuanyuan Zhu, Yujia Hu, Changjun Cheng	Comparison between Analytic and Numerical Method for Dynamic Analyses of Fluid-saturated Porous Half-plane under Moving Cyclic Load	
16:40 – 17:00	Yilan Huang, Weiqiu Chen	On the Green's functions for a compressible soft electroactive half-space and two-phase medium	

Session BEM-9

Date: Oct. 13 (Tuesday) Time: 09:00 – 10:40 Place: Huanglong Hall (8th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:30	Boyang Ding, Jiaqi Jiang, Jing Hu	2-D Green's Functions of a Porous Medium in Time-Domain and Numerical Implementation for Dynamic Response by BEM	Keynote
09:30 – 09:50	Xiaowei Gao Yunfei Liu, Jun Lv	A new method applied to the quadrilateral membrane element with vertex rigid rotational freedom	Invited
09:50 – 10:10	Shyh-Rong Kuo, Jeng-Tzong Chen, Yu-Lung Chang, Shing-Kai Kao	Revisit of the degenerate scale for plate problems	Invited
10:10 – 10:30	Y. Bai, C.Y. Dong	Isogeometric BEM of the nano-inhomogeneities with complex geometric shapes	

Session BEM-6

Date: Oct. 13 (Tuesday) Time: 09:00 – 10:40 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:20	Yiming Chen, Xuan Li, Xuedao Shu, Guangxian Shen	Complex Integral Method For Computing Hypersingular Integrals And Error Estimation	Invited
09:20 – 09:40	Yaoming Zhang	An improved sinh transformation for evaluating nearly singular element integrals in potential problems	Invited

09:40 – 10:00	Miao Yu, Jun Liu, Jiahe Lv	Efficient evaluation of integrals with kernel $1/r^x$ for quadrilateral elements with irregular shape	Invited
10:00 – 10:20	Yudong Zhong, Jianming Zhang, Yunqiao Dong, Yuan Li	A novel integral principle for evaluating 3D weakly singular boundary integrals	
10:20 – 10:40	Qiao Wang, Wei Zhou	Fast line integration boundary element method for elasticity problems with body force	

Session BFM-1

Date: Oct. 13 (Tuesday) Time: 09:00 – 10:40 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:30	Jianming Zhang	Recent Advances in BFM	Keynote
09:30 – 09:50	Yiqian He, Chongshuai Wang, and Haitian Yang	A Scaled Boundary Finite Element Method for viscoelastic problems with cyclically symmetric structures	
09:50 – 10:10	X.C.Qin, C.Y. Dong	Isogeometric Analysis of Curvilinearly Stiffened Plates and Shells	
10:10 – 10:30	Dr. Dongfang Yun	Integration-Kernel-based Method for Solving Multi-Dimensional Partial Differential Equations	

Session FIM-1

Date: Oct. 13 (Tuesday) Time: 09:00 – 10:40 Place: Huanbi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
09:00 – 09:30	Zhihua Wen, Yiuchung Hon	Adaptive finite integration method for singular perturbation problems With multiple boundary layers	Keynote
09:30 – 09:50	M. Li, Huasheng Wang, John W. Rose, Junming Li, P.H. Wen	Inverse heat conduction in functionally graded media by finite integration method	
09:50 – 10:10	M. Lei, M. Li, P. H. Wen	Moving boundary analysis of multilayer composite heat conduction with finite block method	
10:10 – 10:30	G. F. Sun, G. R. Liu, M. Li	A Positive-Bounded Explicit Finite-Difference Scheme	

Session RBF-3

Date: Oct. 13 (Tuesday) Time: 09:00 – 10:40 Place: Guiyu Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
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09:00 – 09:30	Zongming Wu	A meshless symplectic algorithm for multi variate Hamiltonian PDEs with radial basis approximation	Keynote
09:30 – 09:50	Xiaoyan Liu, Wen Li, Ming Li, C. S. Chen	Circulant matrix coupled with the MFS for solving PDEs	

Session BEM-10

Date: Oct. 13 (Tuesday) Time: 11:00 – 12:50 Place: Huanglong Hall (8th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:30	Xiaowei Gao, Jian Liu, Zhichao Yuan, Wenhao Zeng	Construction of Special Boundary Elements and Their Applications in BEM Analysis of Large Scale Engineering	Keynote
11:30 – 11:50	Chunxiao Yu, Xueting Bai, Guangxian Shen	VRP-GMRES(m) Iteration Algorithm for Fast Multipole Boundary Element Method	Invited
11:50 – 12:10	Wenchang Zhao, Leilei Chen, Cheng Liu Haibo Chen	Structural acoustic analysis using a 2D FEM/ discontinuous FMBEM scheme	
12:10 – 12:30	Baotao Chi, Chenjun Lu, Jianming Zhang	CAD model repairing Based on T-spline Merging	

Session FEM-6

Date: Oct. 13 (Tuesday) Time: 11:00 – 12:50 Place: Yunqi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:20	Xianhe Du, Donghuan Liu, Yinghua Liu	Numerical limit analysis of pressure vessel with volume defect under high temperature	
11:20 – 11:40	Jianyong Chen, Shengping Shen	A finite element implementation with UEL in ABAQUS for fully coupled mechanical–chemical processes	
11:40 – 12:00	Weichug Yeih, I-Yao Chan Cheng-Yu Ku, Chia-Ming Fan, Jiang-Jhy Chang	Determining Temperature Distribution and Heat Source for Materials with Nonlinear Heat Conduction Coefficients Using Cauchy Data	
12:00 – 12:20	Jiejiang Zhao, Dong Yin, Lichen Tang, Yongzhong Huo	Numerical simulation of fretting fatigue of steam generator tube in nuclear power plants	

Session FEM-1

Date: Oct. 13 (Tuesday) Time: 11:00 – 12:50 Place: Huanbi Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:30	R. P. Niu, G. R. Liu, M. Li	Lower Bound of Vibration Modes Using the Node-based Smoothed Finite Element Method (NS-FEM)	Keynote

11:30 – 11:50	R. P. Niu, G. R. Liu, M. Li	A novel technique with a correction term for unsteady state heat transfer problem with moving boundary	
11:50 – 12:10	J. H. Yue, M. Li, G. R. Liu	Construction of Functions for G Spaces	
12:10 – 12:30	Hui Wang, Qinghua Qin, Qongpeng Lei	Green's-function-based-finite element analysis of plane anisotropic elastic bodies	
12:30 – 12:50	Hui Wang, Qinghua Qin, Yu-Xun Kang	Eigenvalue computation of acoustic wave problems using fundamental solution-based hybrid finite element formulation	

Session BEM-2

Date: Oct. 13 (Tuesday) Time: 11:00 – 12:50 Place: Guiyu Hall (3th Floor) Chair:

Time	Authors	Titles	Notes
11:00 – 11:20	Liping Zhang, Ming-Gong Lee, Zi-Cai Li	The Null Field and the Interior Field Methods For Mixed Types of Boundary Conditions of Laplace's Equations in Elliptic Domains with Elliptic Holes	
11:20 – 11:40	Boyang Ding, Jiaqi Jiang, Pei Zheng	The Stokes-Darcy system for 2-D Green's functions of porous dynamics and numerical implementation in BEM	
11:40 – 12:00	Yuan Li, Minghao Zhao, Cuiying Fan, Guangtao Xu	Analysis method of planar cracks in a three-dimensional transversely isotropic thermo-magneto-electro-elastic medium	
12:00 – 12:20	Qiaoyun Zhang, Minghao Zhao, Ernian Pan, Cuiying Fan	An elliptical crack with polarization saturation in a piezoelectric half space	
12:20 – 12:40	Ernian Pan	Some fundamental issues and related solutions in anisotropic and layered solids	