Technical Program and Schedule for BEM/MRM36

2013-10-21:

08:30-20:30	Registration	Place
		DUT International Convention Center

2013-10-22:

08:00-08:30	Opening Ceremony		Chairmen
08:30-10:00	Plenary Lecture (Room: Lecture Hall)		Xiao-Wei Gao
08:30-09:00	**Geng-Dong Cheng** (Dalian University of Technology, China)	Physics and mathematics based mesh reduction	
09:00-09:30	**Jeng-Tzong Chen** (National Taiwan Ocean University)	Three detecting indexes and five regularization techniques for degenerate scales in the BEM/BIEM	
09:30-10:00	**Antonio Tadeu** (Pólo II da Universidade de Coimbra, Portugal)	Coupling the BEM and the MFS – wave propagation and heat diffusion	
10:00 - 10:20	Tea Break		
10:20-11:50	Plenary Lecture (Room: Lecture Hall)		Alex Cheng
10:20-10:50	**Zhen-Han Yao** (Tsinghua University, Chian)	Some investigation on the accuracy of BE analysis	
10:50-11:20	**Jian-Ming Zhang** (Hunan University)	An Automatic Simulation Tool for Thermal Analysis of Gravity Dams by BFM	
11:20-11:50	**Wenjing Ye** (Hong Kong University of Science and Technology)	Boundary Element methods for Dynamic Structural Analysis	
12:00-14:00	Lunch & Rest		
14:00 - 17:30	Parallel Sessions		
17:30 - 18:00	EABE Board Meeting (Lecture Hall)		
18:00 - 20:00	Banquet		

2013-10-23:

08:00-10:00	**Plenary Lecture (Room: Lecture Hall)**		Zhen-Han Yao
08:00-08:30	**Alex Cheng** (University of Mississippi, USA)	Some Thoughts on Mesh Reduction and Collocation Method	
08:30-09:00	**Chun-Ying Dong** (Beijing Institute of Technology, China)	Integral equation formulations in 2D inhomogeneous magnetoelectroelastic media	
09:00-09:30	**Hai-Bo Chen** (University of Science and Technology of China)	FEM/Wideband FMBEM coupling to model acoustic-structure interaction	
09:30-10:00	**Ernian Pan** (The University of Akron, USA)	Various Green's functions in anisotropic magnetoelectroelastic bimaterial spaces	
10:00 - 10:10	**Photographing**		
10:10 - 10:30	**Tea Break**		
10:30 - 12:00	**Plenary Lecture (Room: Lecture Hall)**		Jeng-Tzong Chen
10:30-11:00	**Mou-Bin Liu** (Institute of Mechanics, Chinese Academy of Sciences)	Recent improvements on SPH with applications to free surface and fluid-structure interaction problems	
11:00-11:30	**Dong-Dong Wang** (Xiamen University, China)	Dynamic Analysis of Stabilized Meshfree Method for Mindlin-Reissner Plate	
11:30-12:00	**Hai-Tao WANG** (Tsinghua University, China)	ACA-accelerated Time Domain BEM for 3-D Elastodynamics	
12:00-14:00	**Lunch & Rest**		
14:00 - 18:00	**Parallel Sessions**		
18:00 - 19:30	**Dinner**		
20:00 - 22:00	**Panel discussion**		

2013-10-24:

08:00-10:00	Plenary Lecture (Room: Lecture Hall)		
08:00-08:30	**Hang Ma** (Shanghai University, China)	The eigen variable boundary integral equations with applications	Mou-Bin Liu
08:30-09:00	**Huan-Lin Zhou** (Hefei University of Technology, China)	The PCGM for Cauchy inverse problems in 3D potential	
09:00-09:30	**Yao-Ming Zhang** (Shandong University of Technology, China)	A general algorithm for numerical evaluation of early singular integrals over high-order eometry elements in 3D BEM	
09:30-10:00	**Xiao-Wei Gao** (Dalian University of Technology, China)	A direct method for evaluating arbitrary high order singular curved boundary integrals	
10:00 - 18:00	Sightseeing Tour		
10:00 - 11:00	Going to Lvshun by bus		
11:00 - 12:00	Visiting naval port		
12:00 - 13:00	Lunch		
13:00 - 17:00	Visiting East Jiguan mountain & Lvshun museum		
17:00 - 18:00	Going back to Dalian		

Two Parallel Sessions

2013-10-22: BEM etc.

Time	Speaker	Affiliate	Title	Chair
14:00-14:25	Leevan Ling (**Invited**)	Hong Kong Baptist University	Approximate fundamental solution for space–time fractional diffusion equation	Chun-Ying Dong
14:25-14:50	Taiyan Qin (**Invited**)	China Agricultural University	A time domain BEM for transient dynamic straight crack in piezoelectric solids	
14:50-15:10	Yuan Li	Hunan University	A comparative study of time domain BEM for 3D elastodynamic analysis	
15:10-15:30	Hongmei Peng	Inner Mongolia University for Nationalities	Influence of strut structure on hemodynamic characteristics by boundary elementary method	
15:30-15:50	Zhao Guo	Shanghai University	Solution of Stress Intensity Factors for 2-D Multiple Crack Problems by the Fast Multipole Boundary Element Method	
15:50-16:05			**Tea Break**	
16:05-16:30	Zaiyou Yan (**Invited**)	Nanjing University of Aeronautics and Astronautics	The pFFT accelerated BEM for the simulation of 3-D acoustic problems	Hong-Mei Peng
16:30-16:50	Yanchuang Cao	Northwestern Polytechnical University	A SVD accelerated kernel-independent fast multipole method and its application to BEM	
16:50-17:10	Jie Zhai	Tsinghua University	Regularization Fast Multipole Boundary Element Method for Potential Flow Problems in 3D Vortex Method	
17:10-17:30	Guizhong Xie	Hunan University	Application of exponential transformation coupled with adaptive subdivision technique for nearly singular boundary integrals in elasticity problems	
17:30-18:00			**EABE Board Meeting** (Lecture Hall)	

2013-10-22: Mesh Reduction Methods etc.

Time	Speaker	Affiliate	Title	Chair
14:00-14:25	Benny Hon (**Invited**)	City University of Hong Kong	Numerical methods for solving boundary value problems	Jian-Ming Zhang
14:25-14:50	Qinglin Duan (**Invited**)	Dalian University of Technology	Quadratically Consistent Integration Schemes For Element-Free Galerkin Method	
14:50-15:10	Wenting Shao	Tongji University	Chebyshev tau meshless method based on the highest derivative for solving a class of two dimensional parabolic problems	
15:10-15:30	Chenjun Lu	Hunan University	Treatment for geometry noise in mesh generation for welded tubular Y-joints in BFM	
15:30-15:50	Zhaohui Xia	Huazhong University of Science and Technology	M2L optimization in FMBEM and its GPU Implementation	
15:50-16:05			**Tea Break**	
16:05-16:30	Boyang Ding (**Invited**)	Zhejiang University of Technology	Dynamic Green's functions of a buried point load with applications to drainage	Dong-Dong Wang
16:30-16:50	Mei Huang	North China Electric Power University,	Mixed boundary node method for free vibration analysis of rectangular plates with variable thickness and general boundary conditions	
16:50-17:10	Shuaiping Guo	Hunan University	Multiple reciprocity boundary face method for transient heat conduction in Functionally graded materials	
17:10-17:30	Bo Yu	Dalian University of Technology	A time-domain precise BEM for solving transient heat conduction problems with variable heat conductivities	
17:30-18:00			**EABE Board Meeting** (Lecture Hall)	

2013-10-23: BEM etc.

Time	Speaker	Affiliate	Title	Chair
14:00-14:25	Qinghua Qin (**Invited**)	The Australian National University	Mesh reduction strategy: Special element for modelling anisotropic materials with defects	Hai-Bo Chen
14:25-14:50	Xiaohua Zhang (**Invited**)	China Three Geoges University	The variational multiscale element free Galerkin method for the simulation of power-law fluid flows	
14:50-15:10	Zhuojia Fu	Hohai University	Numerical investigation on three treatments for eliminating the singularities of acoustic fundamental solutions in singular boundary method	
15:10-15:30	Hongyan Wang	Beijing University of Technology	Static and dynamic fracture analysis in thin piezoelectric laminas by boundary element method	
15:30-15:50	Changjun Zheng	University of Science and Technology of China	Acoustic eigenvalue analysis using a fast boundary element approach and a contour integral method	
15:50-16:15	**Tea Break**			
16:15-16:40	Changzheng Cheng (**Invited**)	Hefei University of Technology	The variational multiscale element free Galerkin method for the simulation of power-law fluid flows	Zhuo-Jia Fu
16:40-17:00	Kai Yang	Dalian University of Technology	Thermal stress analysis of functionally graded material structures using analytical expressions in radial integration BEM	
17:00-17:20	Jinlong Feng	Tsinghua University	3D acoustic wave simulation using BEM formulations and ACA algorithm	
17:20-17:40	Shen Qu	Dalian University of Technology	Adaptive integration technique for nearly singular integrals in near-field acoustics boundary element analysis	
17:40-18:00	Xianghe Li	Hunan University	The Application of Multi-domain Boundary Face Method in Steady State Heat Conduction Problem	

2013-10-23: Mesh Reduction Methods etc.

Time	Speaker	Affiliate	Title	Chair
14:00-14:25	Tzon-Tzer Lu (**Invited**)	National Sun Yat-sen University	Super-geometric Convergence of Trefftz Method for Helmholtz Equation	Ming-Gong Lee
14:25-14:50	Hui Wang (**Invited**	Henan University of Technology	Influence of packing dimension in doubly-periodic composites on effective thermal properties by super hybrid finite element with boundary integrals	
14:50-15:10	Xingshuai Zheng	Hunan University	A Geometric Cross Approximation Method	
15:10-15:30	ZATIANINA Razafizana	Hohai University	Numerical comparison on two boundary meshless methods for water wave problems	
15:30-15:50	Zhongxian Liu	Tianjin Chengjian University	The MFS solution to 3-D scattering of elasitic waves in layered half space	
15:50-16:15			**Tea Break**	
16:15-16:40	Andong Gong (**Invited**)	Central South University	Analytical integrations of linearly interpolated triangular BEM element with the aid of Matlab symbolic math toolbox	Chang-Jun Zheng
16:40-17:00	Ming-Gong Lee	Chung Hua University	Null Field and Interior Field Methods for Laplace's equation in circular domains with very small holes	
17:00-17:20	Cheng Huang	Hunan University	Automatic Hybrid Mesh Generation for Boundary Face Method	
17:20-17:40	Jin-Xiu Hu	Dalian University of Technology	Numerical evaluation of high order singular boundary integrals using third-degree B-Spline basis functions	
17:40-18:00				