

9<sup>th</sup> US National Congress on Computation Mechanics

## 6<sup>th</sup> Trends in Unstructured Mesh Generation Symposium

July 23-26, 2007

**Hyatt Regency, San Francisco, California**  
**Pacific Concourse, Salon "O"**

### Agenda

#### Session 1 Wednesday, July 25<sup>th</sup> 9:45AM

9:45AM	Robert Haimes	Direct CAD Access for Design Through Analysis
10:07	Tathagata Ray, Ken Greiner, Mark Shephard	Constructing A Geometric Boundary Representation From Multi-Material Voxel Data
10:29	Joe Walsh	Geometry Based Parallel Mesh Generation
10:51	Steven Owen, Brett Clark	An Immersive Topology Environment for Generalized Hex and Tet Meshing of CAD Models

#### Session 2 Wednesday, July 25<sup>th</sup> 2:10PM

2:10PM	Takuji Hayashi, Masanori Kikuchi, Yoshitaka Wada	Mesh Improvement for Quadrilateral Element using Coarsening and Refinement Techniques
2:32	Damrong Guoy, Jeff Erickson	Formulation of Delaunay Field for Hexahedral Meshing
2:54	Derek Gaston, Larisa Branets, Graham Carey, Benjamin Kirk, John Peterson, Roy Stogner	On Combining Mesh Redistribution with h-Adaptivity
3:16	Mike Borden, Michael Brewer	Techniques for Robust Target-to-Source Projection for Many-to-Many Sweeping

#### Session 3 Wednesday, July 25<sup>th</sup> 4:30PM

4:30PM	Azeddine Benabbou, Houman Borouchaki, Patrick Laug, Jian Lu	Geometrical modeling and meshing of granular domains
4:52	Daniel Rypl, Zdenek Bittnar	Triangulation of Microstructure using Recursive Subdivision and Advancing Front Technique
5:14	Amanda Hines, Owen Eslinger	A Rapid Meshing Technique for Studying Near-Surface Phenomena
5:36	Mincheol Lee, ManSoo Joun	Adaptive Tetrahedral Mesh Generation for Intelligent Forging Simulation
5:58	Andrew Kuprat, Daniel Einstein	Automatic Meshing of 3-D Respiratory Geometries

#### Session 4 Thursday, July 26<sup>th</sup> 8:15AM

8:15AM	Jean-Francois Remacle, Christophe Geuzaine	Gmsh: a three-dimensional FE mesh generator with built-in pre- and post-processing facilities
8:37	Lie-Quan Lee, xiaojuan luo, Mark Shephard	Local Mesh Modifications to Correct Curvilinear Meshes for 3D Curved Domains
8:59	Juan Almara	Thistle mesh generator
9:21	Jonathon Shewchuk, Francois Labelle	Isosurface Stuffing: Fast Tetrahedral Meshes with Good Dihedral Angles

#### Session 5 Thursday, July 26<sup>th</sup> 10:35AM

10:35AM	Jose Escobar, Rafael Montenegro, Gustavo Montero, Eduardo Rodriguez	Application of smoothing techniques for aligning meshes
10:57	Adrien Loseille, Frederic Alauzet	A Continuous Sight Of Interpolation Error For 3d Anisotropic Unstructured Mesh Adaptation
11:19	Don Sheehy, Gary Miller, Todd Phillips	A log(L/s)-competitive Algorithm for No-Large-Angle Triangulation
11:41	3D Surface Mesh Regeneration Considering Curvatures	Antonio Miranda, Anthony Ingraffea, Luiz Fernando Martha, Paul Wawrzynek