

First Korea-Japan Joint Workshop on Computational Engineering

We are proud to announce that the First Korea-Japan Joint Workshop on Computational Engineering will be held at the Convention Center of Osaka-University on 14th June, in conjunction with the annual JSCES conference. Every participant in the JSCES conference is welcome to join this memorial workshop and share discussions about recent advances in computational engineering in the both countries.

ORGANIZED BY:

JSCES (Japan Society for Computational Engineering and Science)
COSEIC (Computational Structural Engineering Institute of Korea)

DATE:

June 14th, 2006

WORKSHOP VENUE:

Convention Center of Osaka-University
ZIP 565-0891 1-1, Yamadaoka, Suita, Osaka, Japan
TEL 06-6877-9852 FAX 06-6877-1614
<http://www.handai-kouenkai.org/convention/index.html>
<http://www.osaka-u.ac.jp/eng/student/campus/suita.html> (No.43 building)
<http://www.osaka-u.ac.jp/eng/accessmap.html>

PROGRAM:

Opening Remarks:

10:00-10:05 Prof. K. Fujii, President of JSCES

Session 1: (Chair: Prof. Noguchi, Keio University)

10:05-10:30 Prof. Seonho Cho (Seoul National University)
*“Level Set Based Topological Shape Optimization of Structural Systems
Using Topological Derivatives”*

10:30-10:55 Prof. Makoto Ohsaki (Kyoto University)
“Design of Tensegrity and Flexible Structures”

10:55-11:20 Prof. Sang Jin Lee (Gyeongsang National University)
“Analysis and Design Optimization of Shell Structures”

11:20-11:55 Prof. Takahiro Yamada (Yokohama National University)
*“Conserving Time Integrator Based on Mixed Formulation for Nonlinear
Elastodynamics”*

<LUNCH BREAK>

Session 2: (Chair: Prof. S.H. Lee, Yonsei University)

- 13:00-13:25 Prof. Chang-Ock Lee (KAIST)
“FETI-DP Domain Decomposition Methods with Mortar Methods”
- 13:25-13:50 Dr. Junichi Matsumoto (AIST)
“Application Problems for Computational Fluid Dynamics Using Finite Element Method”
- 13:50-14:15 Prof. Goangseup Zi (Korea University)
“Computational Analysis of Cracks Based on a Local Partition of Unity”
- 14:15-14:40 Prof. Seiichi Koshizuka (University of Tokyo)
“Computer Simulation and Graphics Using a Particle Method”

Session 3: (Chair: Prof. K. Terada, Tohoku University)

- 15:00-15:25 Prof. Maenghyo Cho (Seoul National University)
“Multiscale Analysis from Atomistic to Continuum Scale”
- 15:25-15:50 Prof. Akihiro Nakatani (Osaka University)
“Molecular Dynamics Study of Plastic Deformation in Nanostructured Materials”
- 15:50-16:15 Prof. Eui Sup Shin (Chonbuk National University)
“Fully-Coupled Thermomechanical Analysis with Material and Boundary Nonlinearities”
- 16:15-16:40 Prof. Hiroshi Watanabe (University of Tokyo)
“Multiphysics Simulation of Left Ventricular Filling Dynamics Using Fluid-Structure Interaction Finite Element Method”

Closing Remarks

- 16:40-16:45 Prof. Y.S. Yang, Former President of COSEIK