

Program

9:10-9:15 Opening remarks

President of JSCES, Kazuo Kashiwama (Chuo University)

Session 1 (Chair: Kenjiro Terada, Tohoku University)

9:15-9:50 **(Kenote)** Kengo Nakajima [The University of Tokyo]

Parallel multigrid methods on post-peta/exascale systems

(Kengo Nakajima)

9:50-10:15 SangJoon Shin [Seoul National University]

Development of a dynamic finite element domain decomposition method
using local Lagrange multipliers

(JunYoung Kwak, TaeYoung Chun, Il Lee, SangJoon Shin and Olivier A. Bauchau)

10:15-10:30 Break

Session 2 (Chair: Tong-Seok Han, Yonsei University)

10:30-10:55 Tomohiro Takaki [Kyoto Institute of Technology]

Multi-scale hot-working simulation for dynamic recrystallization material

(Tomohiro Takaki)

10:55-11:20 Heung Soo Kim [Dongguk University]

Iterative free edge stress analysis of piezo-bonded laminated composite plate

(Bin Huang and Heung Soo Kim)

11:20-11:45 Kazuyuki Nakahata [Ehime University]

Image-based FIT simulation for nondestructive testing of concrete and
its validation by electromagnetic wave measurement

(Kazuyuki Nakahata, Taishi Matsumoto and Tatsuro Iga)

11:45-13:15 Lunch Break

Session 3 (Chair: Kengo Nakajima, The University of Tokyo)

13:15-13:50 **(Keynote)** Moon-Young Kim [Sungkyunkwan University]

Improved methods for determining the Initial shape of 3 dimensional
cable-supported bridges

(Moon-Young Kim and Dong-Ju Min)

13:50-14:15 Shigenobu Okazawa [Hiroshima University]

Transient elasto-plastic dynamics analysis using tri and tetra finite element
with nodal sampling points

(Shigenobu Okazawa, Toru Hamasaki and Satoyuki Tanaka)

14:15-14:40 Jun-Sik Kim [Kumoh National Institute of Technology]

A computational asymptotic model of anisotropic beams for distortional loads

(Jun-Sik Kim)

14:40-14:55 Break

Session 4 (Chair: SangJoon Shin, Seoul National University)

14:55-15:20 Yuichi Tadano [Saga University]

Multiscale material modeling of hexagonal metals considering
deformation twinning

(Yuichi Tadano)

15:20-15:45 Tong-Seok Han [Yonsei University]

Analysis on crystal stress distribution of elastoplastically deforming
copper polycrystals over crystal orientation space

(Tong-Seok Han)

15:45-16:10 Kazumi Matsui [Yokohama National Univeristy]

Implicit elastic-plastic simulation method for the severe plastic deformations

(Kazumi Matsui and Takahiro Yamada)

16:10-16:35 Junyoung Park [Kumoh National Institute of Technology]

Common errors of Voronoi tessellation technique for metallic glasses

(Junyoung Park and Yoji Shibutani)

16:35-16:40 Closing remarks Vice-President of COSEIK,

Moon-Young Kim (Sungkyunkwan University)