The 8th Japan-Korea Workshop on Computational Mechanics Program

June 7th, 2018
9:00-9:05 Opening remarks
   President of JSCES, Takahiro Yamada (Yokohama National University)

Session 1 (Chair: Daigoro Isobe, University of Tsukuba)
9:05-9:45 (Keynote) Tsuyoshi Ichimura [The University of Tokyo]
   Fast and Scalable Implicit Finite Element Solver for Earthquakes
9:45-10:10 Gunwoo Noh [Kyungpook National University]
   A novel explicit time integration method for structural dynamics
10:10-10:35 Koji Nishiguchi [RIKEN AICS]
   Fixed Cartesian mesh approach for large-scale parallel simulation of vehicular structures

10:35-10:50 Break

Session 2 (Chair: Do-Nyun Kim, Seoul National University)
10:50-11:15 Heung-Soo Kim [Dongguk University]
   Damage identification of smart composite laminates using machine learning
11:15-11:40 Daisuke Toriu [Kyoto University]
   Computational method for thermal interactions between compressible low Mach number flow and moving solid object
11:40-12:05 Jun Won Kang [Hongik University]
   Material profile reconstruction based on a PDE-constrained optimization

12:05-13:30 Lunch Break

Session 3 (Chairs: Mitsuteru Asai, Kyushu University, Shigenobu Okazawa, University of Yamanashi)
13:30-14:10 (Keynote) Sang Joon Shin [Seoul National University]
   Large-size structural computing by mixed type finite element tearing and interconnecting
14:10-14:35 Kentaro Yaji [Osaka University]
   Fluid topology optimization and applications in flow channel designs
14:35-15:00 Junyoung Park [Kumoh National Institute of Technology]
   Time-saving method for simulation using discrete element method on powder
   packing process in the view of packing structure
15:00-15:25 Takeki Yamamoto [Tohoku University]
   Numerical procedure for connecting shell and solid elements by using
   Nitsche's method

15:25-15:40 Break

Session 4 (Chair: Sang Joon Shin, Seoul National University)
15:40-16:05 Keonwook Kang [Yonsei University]
   Multi-scale analysis of shock behavior of single crystalline Al
16:05-16:30 Daisuke Nishiura [JAMSTEC]
   Applications of a particle simulation for engineering problems
16:30-16:55 Do-Nyun Kim [Seoul National University]
   Stiffness control through auxetic patterning
16:55-17:20 Shuji Moriguchi [Tohoku University]
   Effect of spatial distribution of slope material in rockfall simulations

17:20-17:25 Closing remarks
   President of COSEIK, Heung-Jae Chun (Yonsei University)