Technical Parallel Session
Computational Engineering (CE)

Tuesday, 23 January 2007
Location: Lecture Room 2 (Level 2), Nanyang Executive Centre, Nanyang Technological University

13:00 – 14:00   **Registration**

14:00 – 14:20   Shidrati Ali (SP)
Approximate Low Dimensional Models Based on Proper Orthogonal Decomposition for Transient Applications

14:20 – 14:40   Nguyen Ngoc Cuong (MIT)
An Efficient Reduced-Order Approach for Nonaffine and Nonlinear Partial Differential Equations

14:40 – 15:00   Dai Keyang (NUS)
Smoothed finite element method

15:00 – 15:20   Li Zirui (NUS)
Linear Thermodynamics of Rodlike DNA Filtration

15:20 – 15:45   **Tea Break**

15:45 – 16:10   Huynh Dinh Bao Phuong (NUS)
Reduced basis approximation and a posteriori error estimation for Stress Intensity Factors: Application to Failure Analysis

16:10 – 16:35   Alex Tan Yong Kwang (NUS)
Reduced Basis Method for 2nd Order Wave Equation: Application to One-Dimensional Seismic Problem

16:35 – 17:00   Melvyn Sim (NUS)
Goal-*Driven Optimization*

17:00   **End of Day 1 Session**