Analytical and Computational Fluid Dynamics 2008

-- vortex flows, biological systems and related topics --

Department of Mathematics, Chung-Ang University June 24-25, 2008

SCHEDULE

Venue

○ June 24~25, Rooms 9703(Lecture), 9701(Free Discussion) Natural Sciences Building, Chung-Ang Univ.

Opening Ceremony

O June 24, 9:50-10:00

Plenary Talks

- O Hisashi Okamoto (Kyoto Univ., Research Institute for Mathematical Sciences)
 - Title: The inviscid limit of steady-states of the Navier-Stokes equations
 - June 24 & 25, 10:00-10:50
- O Ming-Chih Lai (National Chiao Tung Univ., Applied Mathematics)
 - Title: An immersed boundary method for the simulation of interfacial flows with insoluble surfactant
 - June 24 & 25, 14:00-14:50

Invited Speakers

O Kim, Do Wan (Hanyang Univ., Applied Mathematics)	- June 24	[11:00-11:30]
O Jo, Tae-Chang (Inha Univ., Mathematics)	- June 24	[11:30-12:00]
O Kim, Chongam (Seoul National Univ., Mechanical and Aerospace Eng.)	- June 24	[15:30-16:00]
O Choi, Haecheon (Seoul National Univ., Mechanical and Aerospace Eng.) - June 24	[16:00-16:30]
O Kim, Yongsam (Chung-Ang Univ., Mathematics)	- June 24	[16:30-17:00]
O Iima, Makoto (Hokkaido Univ., Mathematics)	- June 25	[11:00-11:30]
O Sakajo, Takashi (Hokkaido Univ., Mathematics)	- June 25	[11:30-12:00]
O Whang, Sungim (NIMS., Mathematics)	- June 25	[15:30-16:00]
O Kim, Junseok (Korea Univ., Mathematics)	- June 25	[16:00-16:30]

• Welcome Reception: June 24, 17:30 (Details will be announced later)

ACFD 2008 June 24 & 25 Session

J8	June 24 & 25 Session	
June 24 (Tue)	June 25 (Wed)	
Opening Ceremony		
Plenary Talk I, Chair: Kim, Sun-Chul	Plenary Talk III, Chair: Kim, Sun-Chul	
Okamoto, Hisashi (Kyoto Univ., Research Institute for Math. Sciences) The inviscid limit of steady-states of the Navier-Stokes equations I	Okamoto, Hisashi (Kyoto Univ., Research Institute for Math. Sciences) The inviscid limit of steady-states of the Navier-Stokes equations II	
Break: Coffee & Tea	Break: Coffee & Tea	
Invited Talk I, Chair: Lee, June-Yub	Invited Talk III, Chair: Lee, June-Yub	
Fluid-structure interaction problems using the IFEM Kim, Do Wan (Hanyang Univ.)	A stability of free-flight using vortex: a universal mathematical structure Iima, Makoto (Hokkaido Univ.)	
Strongly nonlinear long wave model for internal waves Jo,Tae-Chang(Inha Univ.)	Motion of a ring structure of coherent vortices on a sphere Sakajo, Takashi (Hokkaido Univ.)	
Lunch	Lunch	
Plenary Talk II, Chair: Kim, Do Wan	Plenary Talk IV, Chair: Kim, Do Wan	
Lai, Ming-Chih (National Chiao Tung Univ., Applied Mathematics) An immersed boundary method for the simulation of interfacial flows with insoluble surfactant I	Lai, Ming-Chih (National Chiao Tung Univ., Applied Mathematics) An immersed boundary method for the simulation of interfacial flows with insoluble surfactant II	
Break: Coffee & Tea	Break: Coffee & Tea	
Break: Coffee & Tea Invited Talk II, Chair: Jung, Eunok	Break: Coffee & Tea Invited Talk IV, Chair: Jung, Eunok	
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Invited Talk II, Chair: Jung, Eunok Recent Progress in Limiting Strategy for Multi-dimensional Conservation Laws	Invited Talk IV, Chair: Jung, Eunok Stationary solitary wave solutions of the forced KdV equation	
Invited Talk II, Chair: Jung, Eunok Recent Progress in Limiting Strategy for Multi-dimensional Conservation Laws Kim, Chongam (Seoul N. Univ.) Three-dimensional Vortical Structures around Gliding and Flapping Insects	Invited Talk IV, Chair: Jung, Eunok Stationary solitary wave solutions of the forced KdV equation Whang, Sungim (NIMS) Detailed description of generalized surface tension formulation	
	Opening Ceremony Plenary Talk I, Chair: Kim, Sun-Chul Okamoto, Hisashi (Kyoto Univ., Research Institute for Math. Sciences) The inviscid limit of steady-states of the Navier-Stokes equations I Break: Coffee & Tea Invited Talk I, Chair: Lee, June-Yub Fluid-structure interaction problems using the IFEM Kim, Do Wan (Hanyang Univ.) Strongly nonlinear long wave model for internal waves Jo, Tae-Chang (Inha Univ.) Lunch Plenary Talk II, Chair: Kim, Do Wan Lai, Ming-Chih (National Chiao Tung Univ., Applied Mathematics) An immersed boundary method for the simulation of	