Taiwan-Japan Joint Workshop on Inverse Problems in Kyoto 2019

Date : March 30th – April 1st, 2019.
Venue : Kyoto University, Yoshida Main Campus

Lecture Room 111 — March 30,31
(Faculty of Engineering Integrated Research Bldg.)
Applied Analysis Seminar Room — April 1
(Integrated Research Building No.12, 2F, 203)

March 30 (Sat.)

9:15–9:45 Registration

9:45–10:00 Opening Address
Y. Iso and J-N.Wang

10:00–10:40 Jenn-Nan Wang (National Taiwan University)
Quantitative uniqueness estimates for complex elliptic equations and application to size estimate

10:40–11:20 Dongwoo Sheen (Seoul National University)
P_1-nonconforming polyhedral finite elements in high dimensions

11:20–12:00 Daisuke Tagami (Kyushu University)
An iterative domain decomposition method for magnetic field problems with the gauge condition

12:00 Group Photo

13:30–14:10 Atsushi Suzuki (Osaka University)
Mixed finite element solution of a semi-conductor problem by Dissection sparse direct solver

14:10–14:50 Keh-Ming Shyue (National Taiwan University)
Numerical methods for barotropic fluid equations with inertia regularization

15:00–15:40 Chin-Tsang Chiang (National Taiwan University)
Estimation and model checking for general semiparametric recurrent event models with informative censoring

15:40–16:20 Kazuki Niino (Kyoto University)
Eigenvalue computations for periodic boundary value problems for Maxwell's equations with the periodic FMMs and the Sakurai-Sugiura projection method

16:30–17:10 Wei-Chen Chang (National Taiwan University)
A recent work about interior transmission eigenvalues problems

17:10–17:50   Kazunori Matsui (Kanazawa University)
An ε-Stokes problem with Neumann boundary condition

Banquet

March 31 (Sun.)

9:30–10:10   Masato Kimura (Kanazawa University)
Snow crystal growth model using generalized crystalline method

10:10–10:50   Pengwen Chen (National Chung Hsing University)
Algorithms in phase retrieval

11:00–11:40   Chien-Hong Cho (National Chung Cheng University)
On the numerical solutions of blow-up problems

11:40–12:00   Yu-Hsun Lee (Kyoto University)
Design of modern visualization interface for FreeFem++

13:30–14:10   Ming-Chih Lai (National Chiao Tung University)
Efficient fractional step method for inextensible interface problem

14:10–14:50   Shugo Yasuda (University of Hyogo)
Numerical study on pattern formation of chemotactic bacteria based on a kinetic transport equation

15:00–15:40   Ching-Lung Lin (National Cheng Kung University)
Unique continuation property for multi-terms time fractional diffusion equations

15:40–16:20   Hiroshi Takase (The University of Tokyo)
Inverse source problem for the gravitational waves in general relativity

16:30–17:10   Gi-Ren Liu (National Cheng Kung University)
Explore intrinsic geometry of sleep dynamics and predict sleep stage by unsupervised learning techniques

16:10–17:30   Suguru Maekawa (Kyoto University)
Multiscale coefficient reconstruction in time harmonic viscoelastic equations for MR elastography

17:30   Closing Address
H. Imai and H. Fujiwara

April 1 (Mon.)

Personal Discussion

30/March (Sat.)		31/March (Sun.)	
9:15–9:45	Registration		(Chair: J-N. Wang)
9:45–10:00	Opening Address	9:30–10:00	M. Kimura
	(Chair: Y. Iso)	10:10–10:50	P. Chen
10:00–10:40	J-N. Wang		(Chair: M-C. Lai)
10:40–11:20	D. Sheen	11:00–11:40	C-H. Cho
11:20–12:00	D. Tagami	11:40–12:00	Y-H. Lee
	Group Photo		
	(Chair: J-H. Lee)		(Chair: S. Taguchi)
13:30–14:10	A. Suzuki	13:30–14:10	M-C. Lai
14:10–14:50	K-M. Shyue	14:10–14:50	S. Yasuda
	(Chair: D. Sheen)		(Chair: I-K. Chen)
15:00–15:40	C-T. Chiang	15:00–15:40	C-L.Lin
15:40–16:20	K. Niino	15:40–16:20	H. Takase
	(Chair: H. Fujiwara)		(Chair: H. Imai)
16:30–17:10	W-C. Chang	16:30–17:10	G-R. Liu
17:10–17:50	K. Matsui	17:10–17:30	S. Maekawa
	Banquet		Closing Address

1/April (Mon.) Personal Discussion

Organizers   Jenn-Nan Wang (National Taiwan University)
                Jyh-Hao Lee (Academia Sinica)
                Yuusuke Iso (Kyoto University)
                Hitoshi Imai (Doshisha University)
                Hiroshi Fujiwara (Kyoto University)