

Taiwan-Japan Joint Workshop on Inverse Problems in Kanazawa 2017

Nov. 18: Kanazawa University, Satellite Plaza, 3F Meeting Room

Nov. 19: Shiinoki Cultural Complex, Seminar Room B

Nov. 20: Kanazawa University, Natural Science and Technology Hall 5, 2F 209A

November 18 (Sat.)

9:20–9:40 Registration

9:40–9:45 Opening Address
Y. Iso and J-N.Wang

9:45–10:15 Kuo-Ming Lee (National Cheng Kung University)
Inverse transmission scattering problem via a Dirichlet-to-Neumann map

10:15–10:45 Hiromichi Nagao (The University of Tokyo)
Data assimilation for massive autonomous systems based on a second-order adjoint method

11:00–11:30 Jeng-Tzong Chen (National Taiwan Ocean University)
Rank-deficient system in the BEM/BIEM

11:30–12:00 Kazuei Onishi (Ibaraki University)
Radioactivity today and tomorrow 100km distant from 1F

12:00 Group Photo

14:00–14:30 Ching-Lung Lin (National Cheng Kung University)
Doubling inequalities for the Lamé system with rough coefficients

14:30–15:00 Nobuyuki Higashimori (Kyoto University)
Convergence of unstable finite difference schemes for some initial value problems including ill-posed cases

15:00–15:30 Yikan Liu (The University of Tokyo)
Coefficient inverse problem for hyperbolic equations with time-dependent principal parts

15:45–16:15 Naoshi Nishimura (Kyoto University)
Cylindrical-hole topological derivatives for Maxwell's equations with applications to an optimal design of metamaterials

- 16:15–16:45 Wen-Wei Lin (National Chiao Tung University)
A novel numerical method for reconstructing targets for Maxwell’s transmission eigenvalue problems with chiral models
- 16:45–17:15 Suguru Maekawa (Kyoto University)
A multiscale algorithm for coefficients identification in MR Elastography
- 18:00 Banquet

November 19 (Sun.)

- 9:30–10:00 Hitoshi Imai (Doshisha University)
Numerical experiments on analyticity of solutions to fractional differential equations
- 10:00–10:30 Gi-Ren Liu (National Cheng Kung University)
Inter-individual sleep assessment by spectral analysis of EEG signals and diffusion-map-enhanced hidden Markov model
- 10:30–11:00 Kenji Amaya (Tokyo Institute of Technology)
Industrial applications of inverse problems
- 11:15–11:45 Kazumi Tanuma (Gunma University)
Perturbation of the polarization ratio of Rayleigh waves in anisotropic media – a possible advantage of using Rayleigh-wave polarization rather than wave speed in nondestructive evaluation
- 11:45–12:15 Jenn-Nan Wang (National Taiwan University)
Estimates of the size of an inclusion for the isotropic elasticity and the complex conductivity in 3D
- 14:00–14:30 Der-Liang Young (National Taiwan University)
An analysis of backward heat conduction problems using the time evolution method of fundamental solutions
- 14:30–15:00 Shiro Kubo (Setsunan University)
Crack identification using piezoelectric film — From passive method to active method —
- 15:15–15:45 Pengwen Chen (National Chung Hsing University)
Phase retrieval algorithms on ptychography
- 15:45–16:00 Hiroshi Takase (The University of Tokyo)
Inverse problem related to the St. Venant equation for one dimensional water flow

November 20 (Mon.)

Personal Discussion

18/November (Sat.) 3F Meeting Room Kanazawa Univ. Satellite Plaza		19/November (Sun.) Seminar Room B Shiinoki Cultural Complex	
9:20–9:40	Registration		(Chair: K-M. Lee)
9:40–9:45	Opening Address Y. Iso, J-N. Wang	9:30–10:00	H. Imai
	(Chair: J-H. Lee)	10:00–10:30	G-R. Liu
9:45–10:15	K-M. Lee	10:30–11:00	K. Amaya
10:15–10:45	H. Nagao		
	(Chair: N. Nishimura)		(Chair: M. Kimura)
11:00–11:30	J-T. Chen	11:15–11:45	K. Tanuma
11:30–12:00	K. Onishi	11:45–12:15	J-N. Wang
	Group Photo		
	(Chair: J-N. Wang)		(Chair: H. Imai)
14:00–14:30	C-L. Lin	14:00–14:30	D-L. Young
14:30–14:30	N. Higashimori	14:30–15:00	S. Kubo
15:00–15:30	Y. Liu		(Chair: H. Fujiwara)
	(Chair: Y. Iso)	15:15–15:45	P. Chen
15:45–16:15	N. Nishimura	15:45–16:00	H. Takase
16:15–16:45	W-W. Lin		Closing Address
16:45–17:15	S. Maekawa		M. Kimura, J-H. Lee
18:00–	Banquet		

20/November (Mon.) Personal Discussion

Kanazawa University, Kakuma Campus,
Natural Science and Technology Hall 5, 2F 209A

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

Local Organizers Masato Kimura (Kanazawa University)
Ken-Ichi Nakamura (Kanazawa University)
Hirofumi Notsu (Kanazawa University)

List of Participants

Jeng-Tzong Chen (National Taiwan Ocean University)	陳正宗 (國立海洋大學)
Pengwen Chen (National Chung Hsing University)	陳鵬文 (國立中興大學)
Jyh-Hao Lee (Academia Sinica)	李志豪 (中央研究院)
Kuo-Ming Lee (National Cheng Kung University)	李國明 (國立成功大學)
Ching-Lung Lin (National Cheng Kung University)	林景隆 (國立成功大學)
Wen-Wei Lin (National Chiao Tung University)	林文偉 (國立交通大學)
Gi-Ren Liu (National Cheng Kung University)	劉聚仁 (國立成功大學)
Jenn-Nan Wang (National Taiwan University)	王振男 (國立台灣大學)
Der-Liang Young (National Taiwan University)	楊德良 (國立台灣大學)
Kenji Amaya (Tokyo Institute of Technology)	天谷賢治 (東京工業大學)
Hiroshi Fujiwara (Kyoto University)	藤原宏志 (京都大學)
Nobuyuki Higashimori (Kyoto University)	東森信就 (京都大學)
Hitoshi Imai (Doshisha University)	今井仁司 (同志社大學)
Yuusuke Iso (Kyoto University)	磯祐介 (京都大學)
Daisuke Kawagoe (Kyoto University)	川越大輔 (京都大學)
Masato Kimura (Kanazawa University)	木村正人 (金沢大學)
Shiro Kubo (Setsunan University)	久保司郎 (摂南大學)
Yikan Liu (The University of Tokyo)	劉逸侃 (東京大學)
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Kazuei Onishi (Ibaraki University)	大西和榮 (茨城大學)
Kento Sato (Kyoto University)	佐藤健人 (京都大學)
Takemi Shigeta (Showa Pharmaceutical University)	繁田岳美 (昭和藥科大學)
Hiroshi Takase (The University of Tokyo)	高瀬裕志 (東京大學)
Kazumi Tanuma (Gunma University)	田沼一実 (群馬大學)
Kenji Tomoeda (Kyoto University)	友枝謙二 (京都大學)
Ryohei Yamaoka (Kanazawa University)	山岡良平 (金沢大學)
Zhenxing Yang (Kanazawa University)	楊振興 (金沢大學)
Hitoshi Yoshikawa (Kyoto University)	吉川仁 (京都大學)