

Taiwan-Japan Joint Conference on Inverse Problems and Related Topics

2015 台灣日本逆問題及相關課題聯合研討會

Time: Nov. 21 (Sat.) to Nov. 23 (Mon). Venue: Lecture Room 202 Astro. Math

2015 Building, National Taiwan University

Nov 21 (Sat)

- 8:20-8:50 Registration
- 8:50-9:00 Opening
- 9:00-9:50 Wen-Yih Isaac Tseng 曾文毅
Diffusion MRI of complex axonal fibers
- 9:50-10:10 Break
- 10:10-10:40 Shinpei Okawa 大川晋平
Fundamental studies on quantitative biomedical
photoacoustic imaging
- 10:40-11:10 Matthew Lin 林敏雄
Inverse Data Recovery and Its Application
- 11:10-11:30 Break
- 11:30-12:00 Koh Hashimoto 橋本 康
An iterative reconstruction method for optical tomography
and detection of tumor in human neck
- 12:00-12:30 Chun-Kong Law 羅春光
A trigonometric identity related to an inverse spectral
problem on graphs
- 12:30-14:00 Lunch
- 14:00-14:50 Pengwen Chen 陳鵬文
FOURIER PHASE RETRIEVAL WITH A SINGLE MASK BY
DOUGLAS-RACHFORD ALGORITHM.
- 14:50-15:10 Break
- 15:10-15:40 Naoshi Nishimura 西村直志
Determining scatterers using topological optimisation
methodology and boundary integral method for wave
equation in 3D

- 15:40-16:10 Yu-Cheng Shu 舒宇宸
Applications of the Signals Recorded by Infrared Fingertip Devices
- 16:10-16:30 Break
- 16:30-17:00 Daisuke Kawagoe 川越大輔
Regularity of solutions to the stationary transport equation and its application to DOT
- 17:00-17:30 Kuo-Ming Lee 李國明
Inverse scattering problem from an impedance crack
- 17:30-18:00 Hiroshi Fujiwara 藤原宏志
Development of Multiple-Precision Arithmetic on MATLAB for Numerical Computations of Ill-Posed Problems
- 18:30 Reception (水源會館)

Nov 22 (Sun)

- 9:00-9:50 Tomoyuki Higuchi 樋口知之
Data Assimilation: Challenge for Big Data through Numerical Simulation
- 9:50-10:10 Break
- 10:10-10:40 Ching-Lung Lin 林景隆
Unique continuation property for the anomalous diffusion
- 10:40-11:10 Hiroshi Kato 加藤博司
Data Assimilation for Aeronautical Fluid Analysis
- 11:10-11:30 Break
- 11:30-12:00 Lunghui Chen 陳隆暉
On the Interior Transmission Problem and Its Applications
- 12:00-12:30 Ryuji Endo 遠藤龍司
Characteristics on Sensitivity Matrix of Projection Filter Used as Inverse Analysis Procedure on Structural System Identification

12:30-14:00	Lunch
14:00-14:50	Masahiro Yamamoto 山本昌宏 Expanding applications of inverse problem in industry and environments: case studies
14:50-15:10	Break
15:10-15:40	Gi-Ren Liu 劉聚仁 Phase retrieval problem with random illumination
15:40-16:10	Hitoshi Imai 今井仁司 Numerical computation for checking smoothness
16:10-16:30	Break
16:30-17:00	Yi-Cheng Hsu 徐義程 Significant feed-forward connectivity revealed by high frequency components of BOLD fMRI signals
17:00-17:30	Yuusuke Iso 磯 祐介 Numerical realization of the diffuse optical tomography based on time dependent measurement
17:30-18:00	Yi-Hsuan Lin 林奕亘 Strong Unique Continuation for a Residual Stress System with Gevrey Coefficients
18:00-18:10	Closing
18:40	Banquet (invited only)

The total number of speakers is 4 (50-min)+18 (30-min).

** Schedule of Nov. 23 (Mon.)

- Academic visit of Palace Museum (Japanese participants)
- Free Discussion (1:30 p.m.-4:30 p.m.)

** Prof. Takaaki Nishida will give a Special Lecture on Nov. 23 (Monday) 3:30

PM-4:30PM at NCTS, 2F, Astro. Math Building, National Taiwan University