

# The 10th Young Scholar Symposium of the East Asia Section of IPIA

## Program Agenda

### Day 1

Date:

09:10–09:40	<b>Registration</b>	
09:40–09:50	<b>Opening</b>	
09:50–10:50	<i>The plane wave method</i>	<b>Mikko Salo</b>
10:50–11:10	<b>Break</b>	
11:10–11:40	<i>Single boundary measurement uniquely determines the spatially heterogeneous order of certain classes in time-fractional diffusion</i>	<b>Jiho Hong</b>
11:40–12:10	<i>Iterative Direct Sampling Method for Inverse Boundary Value Problems</i>	<b>Fengru Wang *online</b>
12:10–13:40	<b>Lunch Break</b> <b>IPIA-East Asia Section Junior Scholar Award Presentation Ceremony</b>	
13:40–14:10	<i>On the inverse inclusion problem for convex polyhedra</i>	<b>Chun-Hsiang Tsou</b>
14:10–14:40	<i>Transmission problem for perfect conductor with small interface resistance</i>	<b>Shota Fukushima</b>
14:40–15:10	<i>Neutral inclusions with imperfect bonding</i>	<b>Yong-Gwan Ji</b>
15:10–15:30	<b>Tea Break</b>	
15:30–16:00	<i>Coupling the coupled complex boundary method and ADMM for constrained shape optimization in geometric inverse problems</i>	<b>Julius Fergy</b> <b>Tiongson Rabago</b>
16:00–16:30	<i>Exploring heuristic rules for iterative and variational regularization for inverse problems</i>	<b>Rommel R. Real</b>
16:30–17:00	<i>Frequency dependent contraction rates for the Bayesian method to the inverse source problem</i>	<b>Pu-Zhao Kow</b>
18:00–20:00	<b>Banquet</b>	

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### Day 2

Date:

09:30–10:30	<i>Inverse boundary problems with a single passive observation</i>	Hongyu Liu *online
10:30–10:50	<b>Break</b>	
10:50–11:20	<i>An inverse problem for semilinear elliptic equations with generalized Kerr-type nonlinearities</i>	Rulin Kuan
11:20–11:50	<i>MUSIC Imaging with Rotating Mono- and Bistatic Configurations</i>	Sangwoo Kang
11:50–12:20	<i>Latent Autoencoder Ensemble Kalman Filter for Data assimilation</i>	Tong Xin
12:20–13:40	<b>Lunch Break</b>	
13:40–14:10	<i>Inverse Fiedler vector problem of a graph</i>	Jephian C.-H. Lin
14:10–14:40	<i>Transformers through the lens of support-preserving maps between measures</i>	Takashi Furuya
14:40–14:50	<b>Break</b>	
14:50–15:20	<i>Mamba-Based Neural Operators for PDEs: Toward Efficient Forward and Inverse Problem Solving</i>	Junseung Ryu
15:20–15:50	<i>On the contraction rate of the posterior distribution for nonlinear PDE parameter identification</i>	Yuxin Fan
15:50–16:00	<b>Closing and Best Presentation Award</b>	