Program

As of June 28

Monday July 3

Time	Location		Speaker	Title
8:30--9:00	**Registration (Entrance Hall)**			
9:00--9:15	**Opening (Hall A)**			
9:15--10:45	Hall A		G. Uhlmann	Inverse Boundary Problems with Incomplete Data
			J. Zou	Domain Decomposition and Multigrid Methods for Parameter Identifications
10:45--11:00	**Coffee Break**			
11:00--12:30	Hall A		O. Imanuvilov	On Some Inverse Problems Associated with the Isotropic Lamé System
			E-J. Woo	Conductivity Imaging using EIT and MREIT Techniques: Experimental Results
12:30--13:45	**Lunch**			
13:45--15:15	Hall A		J-J. Liu	On the Mathematical Issues and Numerical Implementations of MREIT Problem
			H. Isozaki	Inverse Boundary Value Problems and Hyperbolic Geometry
15:15--15:30	**Coffee Break**			
15:30--16:50	Hall A	Lectures	C. Groetsch (40mins)	Integral Equations of the First Kind, Inverse Problems and Regularization
			C. Groetsch (40mins)	Integral Equations of the First Kind, Inverse Problems and Regularization
16:50--17:00	**Coffee Break**			
17:00--18:15 (Parallel Session)	Hall A	Session A	W. Ning	An Inverse Initial-boundary Value Problem for the Operator $\frac{\partial^2}{\partial t^2} - \frac{\partial^2}{\partial x^2} - p_1(x)\frac{\partial}{\partial t} - p_2(x)\frac{\partial}{\partial x}$
			S. Nagayasu	An Inverse Problem for the One-dimensional Wave Equation in Multilayer Media
			M. Sini	Point-wise Determination of the Surfacel Impedance from Scattering data. I. The Acoustic Case.
	Hall B	Session B	P. D. Alain	Non Homogeneous Heat Equation: Identification and Regularization for the Inhomogeneous Term
			M. Cristo	Stability Properties of Iinverse Parabolic Problems with Unknown Boundaries
			M. Ikehata	An Inverse Source Problem for the Heat Equation and the Enclosure Method
	Room C	Session C	T. Shigeta	Convergence Property of the Variational Method for the Cauchy Problem of the Laplace Equation
			M. Lukas	Robust Generalized Cross-validation for Choosing the Regularization Parameter
			F. Bauer	Choosing the Regularization Parameter with Very Limited Information on the Noise Level
	Room D	Session D	H. Fang	The Retrieval Theory of GPS Dropsonde Wind-finding System
			S. Huang	Inverse Problems in GPS Positioning and Numerical Computation
			A. Satoda	Inverse Analysis on Circular Cylindrical Shell Subjected to Hydrostatic Pressure

Program

As of June 28

Tuesday July 4

Time	Location	Speaker		Title
9:00--10:30	Hall A	M. Watanabe		Inverse Scattering Problem for Time Dependent Hartree-Fock Equation
		P. Stefanov		Geodesic Tensor Tomography for a Class of Non-simple Manifolds with Boundary
10:30--10:45	**Coffee Break**			
10:45--12:15	Hall A	P. Kuegler		Reverse Engineering in Chemical and Biological Reaction Networks Using Sparsity Constraints
		N. Higashimori		Identification of a domain by the Lamé system
12:15--13:45	**Lunch**			
13:45--15:15	Hall A	M. V. Klibanov		Global Uniqueness Theorems, Stability Estimates and Numerical Methods for Some Coefficient and Ill-Posed Cauchy Problems
		F. Ma		Inverse Eledtromagnetic Scattering Problems with Chiral Obstacle
15:15--15:30	**Coffee Break**			
15:30--16:50	Hall A	Tutorial	H. W. Engl (40mins)	Nonlinear Inverse Problems: Functional Analytic Theory, Numerical Methods, Applications
			H. W. Engl (40mins)	Nonlinear Inverse Problems: Functional Analytic Theory, Numerical Methods, Applications
16:50--17:00	**Coffee Break**			
17:00--18:15 (Parallel Session)	Hall A	Session A	S. Li	Estimation of Coefficients in a Hyperbolic Equation with Impulsive Inputs
			M. Kawashita	Singularities of the Scattering Kernel on the Channel of the Rayleigh Wave
			H. Sasaki	The Inverse Scattering Problem for Schrödinger and Klein-Gordon Equations with a Nonlocal Nonlinearity
	Hall B	Session B	X. Jia	Error estimate for non-characteristic Cauchy problem of the 2-D heat equation
			D. Lesnic	Iterative Methods for the Cauchy Problem of Stokes Flow
			Y. Kamimura	An Inverse problem in Advection-diffusion
	Room C	Session C	K. Yoneda	A solution Mthod for Positive Linear Inverse Problems and Its Application to Trip Distribution with Inconsistent Data
			Y. Wei	On Mixed and Componentwise Condition Numbers for Moore-Penrose Inverse and Linear Least Squares Problems with Applications to Tikhonov Regularization
			S. Saitoh	Applications of the Tikhonov Regularization Using Reproducing Kernels to Inverse Problems
	Room D	Session D	S. Shiota	Structural Damage Identification Based on Variable Parametric Projection Filter
			H. K. Pikkarainen	State Estimation Approach to Nonstationary Inverse Problems: Discretization Error and Filtering Problem
			H. Okano	Calibration of Multi-Phase Flow Function and Quantification of Uncertainty in Petroleum Reservoir Forecast

Program

As of June 28

Wednesday July 5

Time	Location	Speaker		Title
9:00--10:30	Hall A	M. Lim		Gradient Estimates for Solutions to the Conductivity Problem
		Y. Tan		Some Computational Aspects for Geophysical Inverse Problems
10:30--10:45	**Coffee Break**			
10:45--12:15	Hall A	B. Kaltenbacher		Characterization of Nonlinear Material Behaviour: Parameter Identification Problems in Nonlinear PDEs and Their Regularized Solution
		V. Isakov		The Inverse Conductivity Problem with Limited Data and Applications
12:15--12:30	Photography (Place will be announced)			
12:30--13:50	**Lunch**			
13:50--15:20	Hall A	J. Cheng		TBA
		R. Potthast		Magnetic Tomography: From New Algorithms to Industrial Applications
15:20--15:30	**Coffee Break**			
15:30--16:50	Hall A	Tutorial	R. Kress (40mins)	Uniqueness in Inverse Obstacle Scattering
			R. Kress (40mins)	Numerical Methods in Inverse Obstacle Scattering
16:50--17:00	**Coffee Break**			
17:00--17:50 (Parallel Session)	Hall A	Session A	H. Kang	Complete Solutions to Conjectures of Ploya-Szegö and Eshelby in Two Dimensions
			C-L. Lin	An Expansion Theorem for Two-dimensional Elastic Waves and Its Application
	Hall B	Session B	J. Foukzon	Inverse Problem for Navier-Stokes Equation with External Periodical Imposed Azimuthal Magnetic Field
			H. Kawakami	Estimation Problem for the Shape of a Domain Based on Parabolic Equations
	Room C	Session C	X. Luo	Dynamical Systems Method for Solving the Operator Equations of the First Kind
			P. Kuegler	A Nonlinear Operator Approach to Online Parameter Estimation in Nonlinear Dynamical Systems
	Room D	Session D	S. Kubo	Identification of Plural Cracks by the Passive Electric Potential CT Method with Piezoelectric Material
			Q-F. Wang	Developed Identification of Coefficient Inverse Issue for 2D Parabolic Model by Boundary Pointwise Observation
18:45--20:45	**Banquet**			

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As of June 28

Thursday July 6

Time	Location	Speaker		Title
9:00--10:30	Hall A	S. Kim		Inversion Problem of the Gravity Potential
		H. Fujiwara		Numerical Computation of Ill-Posed Problems by Spectral Element Method
10:30--10:45	**Coffee Break**			
10:45--12:15	Hall A	Y. Wang		Detection of irregular points by regularization in numerical differentiaition and an application to the edge detection
		M. Lassas (40mins)		Inverse Problems with Imperfectly Known Boundary
12:15--13:45	**Lunch**			
13:45--15:15	Hall A	M. Lassas (40mins)		Inverse Problems with Imperfectly Known Boundary
		K. Tanuma		Perturbation of Rayleigh-wave Velocity Caused by a Fully Anisotropic Term
15:15--15:30	**Coffee Break**			
15:30--16:50	Hall A	Tutorial	N. Tosaka (40mins)	Inverse Analysis with Use of Filter Theory
			N. Tosaka (40mins)	Inverse Analysis with Use of Filter Theory
16:50--17:00	**Coffee Break**			
17:00--18:15 (Parallel Session)	Hall A	Session A	K-M. Lee	Nonlinear Integral Equations in Inverse Scattering from a Neumann Crack
			K-H. Leem	A Preconditioned $(F^*F)^{1/4}$ Method in Inverse Obstacle Scattering
			T. Hohage	Characterization of the Eigencalues of the Far-field Operator
	Hall B	Session B	M. Cristofol	Inverse Problems for a Two by Two Reaction-diffusion System Using Carleman Estimate with One Observation
			Y. Daido	Reconstruction of Inclusion for the Inverse Boundary Value Problem of Non-stationary Heat Equation
			G. Li	Conditional Stability for Source Parameter Identification in Multidimensional Advection-dispersion Equation with Final observations
	Room C	Session C	T. Takiguchi	Can All Measurable Plane Sets be Reconstructed by Two Projections?
			T. Nara	Direct Computation of Harmonic Moments for Tomographic Reconstruction
			H. Igarashi	Topology Optimization Using an Immune-based Algorithm
	Room D	Session D	T. Ohe	Inverse Crack Problem and the Mittag-Leffler Function
			T. Yamazaki	Inverse Problems for n-dimensional Vibrating System
			C. Groetsch	Integral Equation Models for the Inverse Problem of Biological Ion Channel Distributions

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As of June 28

Friday July 7

Time	Location	Speaker		Title
9:00--10:30	Hall A	K. Shirota		Numerical Method for an Inverse Dynamical Problem for Composite Beams
		H. Ammari		Electrical Impedance Tomography by Elastic Perturbations
10:30--10:45	**Coffee Break**			
10:45--12:15	Hall A	A. Lorenzi		Solved and Open Identification Problems Related to Differential and Integro-differential Equations
		T. Sakamoto		A Fast Imaging for UWB Pulse Radars
12:15--13:45	**Lunch**			
13:45--15:15	Hall A	T. Sakamoto (40mins)		A Fast Imaging for UWB Pulse Radars
		B. Zakhariev		Submissive Quantum Mechanics: New Status of the Theory in Inverse Problem Approach
15:15--15:30	**Coffee Break**			
15:30--18:15 (Parallel Session)	Hall A	Session A	M. Salo	Recovering First Order Terms from Boundary Measurements
			H. Takuwa	A Note on the Construction of the Complex Geometrical Optics Solutions for Second Order Elliptic Equations
			X. Li	Inverse boundary value problem for Stokes equation
			15 mins	**Coffee Break**
			I. Trooshin	Inverse Spectral Scattering on Graphs
			A. Amirov	Unique Continuation and an Inverse Problem for Hyperbolic Equations Across a General Hypersurface
			K. Ito	TBA
	Hall B	Session B	J. L. Rousseau	Carleman Estimate and Applications for the One-dimensional Heat equation with a Non-smooth Coefficient
			A. Benaddallah	Inverse Problems for the Heat Equation with Discontinuous Diffusion Coefficients
			G. Yuan	Inverse Problems of Determination of Principal Parts for a Parabolic Equation
			15 mins	**Coffee Break**
			Y.C. Hon	A Fundamental Solution Method for Inverse Heat Conduction Problems
			T. Takeuchi	A reconstruction scheme for identifying source locations in two dimensional heat equations
			Y. Ma	An Algorithm Reconstructing Source Term for Neutron Transport Equation
18:25--18:35	**Closing**			