

Schedule for ICAHA 2006

Saturday, 17 June

7:30-8:30	Registration		
8:30-9:10	Opening Ceremony S 306 (Chair: Yuesheng Xu) 1. Address by Prof. Yuefei Wang (Vice President of AMSS, CAS) 2. Address by Prof. Yong Deng (Vice President of GUCAS) 3. Address by Prof. Shenzhen Lu (Co-Chair: of the Scientific Committee)		
9:10-9:40	Photo Taking		
9:40-10:00	Tea break		
10:00-11:00	Plenary Address S 306 Charles A. Micchelli , State University of New York (Chair: Jiachang Sun) On Translation Invariant Operators Which Preserve the B-Spline Recurrence		
11:00-12:00	Plenary Address S 306 Tadeusz Iwaniec , Syracuse University (Chair: Gregory Verchota) On the Distributional Product of BMO and H^1		
12:00	Lunch (Fouth Floor of Wu-Ke Hotel)		
14:00-15:00	Plenary Address S 306 Norden E. Huang , NASA (Chair: Yuesheng Xu) An Introduction to Hilbert-Huang Transform for Nonlinear and Nonstationary Time Series Analysis		
	Chair: Chincheng Lin	Chair: Dirong Chen	Chair: Xuecheng Tai
15:00-15:40	40-minute Address S 306 Zhaohua Wu , COLA Time-Frequency Analysis: Beyond Wavelets	40-minute Address N 308 Sunil Kukreja , NASA Structure Detection of Nonlinear Aeroelastic Systems with Application to	40-minute Address N 306 Dingxuan Zhou , City University of Hong Kong Online Learning by Regularization

		Aeroelastic Flight Test Data	
15:40-16:20	<u>40-minute Address</u> S 306 Yongsheng Han , Auburn University Hardy Spaces Associated to Non-standard Dilations	<u>40-minute Address</u> N 308 Jianzhong Wang , Sam Houston University Bayesian Approach to Anisotropic Diffusions	<u>40-minute Address</u> N 306 Jie Shen , Purdue University Fast Spectral-Galerkin Method: Algorithms, Analysis and Applications
16:20-16:40	Tea break		
	Chair: Yongsheng Han	Chair: Xianliang Shi	Chair: Zhongying Chen
16:40-17:20	<u>40-minute Address</u> S 306 Gregory Verchota , Syracuse University Neumann Problems for Higher Order Operators	<u>40-minute Address</u> N 308 Shidong Li , San Francisco State University Extensions of Frames with Applications	<u>40-minute Address</u> N 306 Xuecheng Tai , University of Bergen Image Inpainting Using a TV-Stokes Equation
17:20-18:00	<u>40-minute Address</u> S 306 Dachun Yang , Beijing Normal University A New Molecular Characterization for Hardy Spaces on Spaces of Homogeneous type and its Applications	<u>40-minute Address</u> N 308 Song Li , Zhejiang University Some results on Vector Refinement Equations	<u>40-minute Address</u> N 306 Aihui Zhou , Chinese Academy of Sciences A First Principles Calculation Based on Two-scale Finite Element Discretizations
18:30	Banquet Zhong-Yue Restaurant		
Sunday, 18 June			
8:00-9:00	<u>Plenary Address</u> S 306 Guido L. Weiss , Washington University (Chair: Lizhong Peng) Uniform Theory of Reproducing Systems		
9:00-10:00	<u>Plenary Address</u> S 306 Shanzhen Lu , Beijing Normal University (Chair: Silei Wang) Some Results and Problems on Commutators		
10:00-10:20	Tea Break		
	Chair: Jiecheng Chen	Chair: Jianzhong Wang	Chair: Aihui Zhou
10:20-11:00	<u>40-minute Address</u> S 306 Weiyi Su , Nanjing University Recent Development of Fractal Analysis on Local	<u>40-minute Address</u> N 308 Selim Esedoglu , University of Michigan Decomposition of Images using High Order	<u>40-minute Address</u> N 306 Yuan Xu , University of Oregon A New Reconstruction Algorithm for CT based on

	Fields	Variants of the Total Variation Denoising Model	Orthogonal Expansion on the Disk
11:00–11:40	<u>40-minute Address</u> S 306 Lixin Yan , Zhongshan University Some New Function Spaces Associated with Operators and Applications	<u>40-minute Address</u> N 308 Bin Han , University of Alberta Refinable Functions and Cascade Algorithms in Weighted Spaces with Infinitely Supported Masks	<u>40-minute Address</u> N 306 Martin Stynes , National University of Ireland Convection-diffusion Problems and their Numerical Solution
11:40–12:00	<u>20-minute Address</u> S 306 Jiman Zhao , Beijing Normal University Weyl Transform associated with the Heisenberg Group	<u>20-minute Address</u> N 308 Qiaofang Lian , Beijing Jiaotong Univ. $L^p([0, 1])$ —Characterizations of Multi-knot Piecewise Linear Spectral Sequences	<u>20-minute Address</u> N 306 Qingsong Zou , Zhongshan University Convergence Analysis of Adaptive Finite Volume Method
12:00	<u>Lunch (Fouth Floor of Wu-Ke Hotel)</u>		
14:00–15:00	<u>Plenary Address</u> S 306 Rong-Qing Jia , University of Alberta (Chair: Dingxuan Zhou) Wavelet Bases in Besov Spaces		
	Chair: Weiyi Su	Chair: Bin Han	Chair: Yuan Xu
15:00–15:40	<u>40-minute Address</u> S 306 Silei Wang , Zhejiang University On $\text{RBMO}^r(\mu)$ ($0 < r < 1$)	<u>40-minute Address</u> N 308 Don Hong , MTSU and Vanderbilt University Wavelet-Based Algorithm for Proteomic Data Processing	<u>40-minute Address</u> N 306 Zhongying Chen , Zhongshan University Multi-Parameter Tikhonov Regularization for Ill-posed Operator Equations
15:40–16:20	<u>40-minute Address</u> S 306 Jie Xiao , Memorial University of Newfoundland Q-Extensions of BMO and Navier-Stokes Equations	<u>40-minute Address</u> N 308 Xingwei Zhou , Nankai University Some Recent Results on Wavelet Frames	<u>40-minute Address</u> N 306 Chincheng Lin , National Central University Triebel-Lizorkin Spaces of Para-accretive Type and Tb Theorem
16:20–16:40	<u>Tea Break</u>		
	Chair: Yong Ding	Chair: Xingwei Zhou	Chair: Hanlin Chen
16:40–17:20	<u>40-minute Address</u> S 306 Jiecheng Chen , Zhejiang University Singular and Marcinkiewicz Integrals with Rough Kernels	<u>40-minute Address</u> N 308 Zengjian Lou , Shantou University Characterizations of Divergence-free Hardy Spaces	<u>40-minute Address</u> N 306 Jiachang Sun , Chinese Academy of Sciences A PDE Approach in Multivariate Approximation over Non-Trational Structured Partitions

17:20-18:00	<u>40-minute Address</u> S 306 Zhenqiu Zhang , Nankai University L^p Estimates for Singular Radon Transforms with Rough Kernels	<u>40-minute Address</u> N 308 Dirong Chen , Beihang University Consistency of Multiclass Empirical Risk Minimization Methods Based on Convex loss	<u>40-minute Address</u> N 306 Wei Wu , Dalian University of Technology L^p Approximation Capability of RBF Neural Networks
18:00	Dinner (Fouth Floor of Wu-Ke Hotel)		
Monday, 19 June			
8:00-9:00	<u>Plenary Address</u> S 201 Tony Chan , UCLA (Chair: S. Riemenschneider) Variational PDE Techniques in Wavelet Based Image Processing		
9:00-10:00	<u>Plenary Address</u> S 201 Xiaochun Li , University of Illinois (Chair: Shanzhen Lu) Multilinear Oscillatory Integrals		
10:00-10:20	Tea Break		
	Chair: Dachun Yang	Chair: Shidong Li	Chair: Jie Shen
10:20-11:00	<u>40-minute Address</u> S 201 Wenchang Sun , Nankai University G -frames and g -Riesz Bases	<u>40-minute Address</u> N 208 Xianliang Shi , Hunan Normal University MCM Wavelet and Wilson Wavelet with Applications	<u>40-minute Address</u> N 306 Juan M. Pena , University of Zaragoza On some Computational Aspects related to Refinable Functions
11:00-11:40	<u>40-minute Address</u> S 201 Jianxun He , Guangzhou University Admissible Wavelets and Inverse Radon Transform Associated with the Affine Homogeneous Siegel Domains of Type II	<u>40-minute Address</u> N 208 Qingtang Jiang , Univ. of Missouri-St. Louis Vector Subdivision for Surface Designs	<u>40-minute Address</u> N 306 Mingjun Lai , University of Georgia The Convergence of L_1 Spline Methods for Scattered Data Interpolation and Fitting
11:40-12:00	<u>20-minute Address</u> S 201 Enbing Lin , University of Toledo Wavelet Methods for Functional Integral	<u>20-minute Address</u> N 208 Qun Mo , University of Alberta Symmetric Tight Wavelet Frames with three	<u>20-minute Address</u> N 306 Zhiqiang Xu , Chinese Academy of Sciences Using Multivariate Splines to Study Problems

	Equations	Generators	in Discrete Mathematics
12:00	Lunch (Fouth Floor of Wu-Ke Hotel)		
Break			
18:00	Dinner (Fouth Floor of Wu-Ke Hotel)		
Tuesday, June 20			
8:00-9:00	<u>Plenary Address</u> S 201 Ian Sloan , University of New South Wales (Chair: Martin Stynes) The Best of Both Worlds--Strategies for Approximation on the Sphere		
	Chair: Zhongkai Li	Chair: Selim Esedoglu	
9:00-9:40	<u>40-minute Address</u> S 201 Daoqing Dai , Zhongshan University Some Results on Wavelets for Degenerate Differential Operators and Applications	<u>40-minute Address</u> S 202 S. Riemenschneider , West Virginia University An Adaptive Time-Frequency Representation and its Fast Implementation	
9:40-10:00	<u>20-minute Address</u> S 201 Huoxiong Wu , Xiamen University A Class of Multiple Singular Integrals along Continuous Surfaces	<u>20-minute Address</u> S 202 Jinru Wang , Beijing Univ. of Technology Convergence of the Wavelet Solution to the Sideways Heat Equation	
10:00-10:20	Tea Break		
	Chair: Luoqing Li	Chair: Changxing Miao	
10:20-11:00	<u>40-minute Address</u> S 201 Kunyang Wang , Beijing Normal University New Results concerning the Sphere Obtained after 2001 by the Research Group of BNU ---In memory of Professor Sun Yongsheng	<u>40-minute Address</u> S 202 Hanlin Chen , Chinese Academy of Sciences Computation of Potentials	
11:00-11:40	<u>40-minute Address</u> S 201 Silong Peng , Chinese Academy of Sciences Adaptive Signal Decomposition Based on Local Narrow Band Signal	<u>40-minute Address</u> S 202 Youming Liu , Beijing Univ. of Technology Spline Wavelets in $L^2(\mathcal{Z})$	

11:40-12:00	<u>20-minute Address</u> S 201 Yingchun Jiang , Beijing Univ. of Technology The Completeness of Orthogonal Wavelet Systems in $L^2(\mathcal{Z})$	<u>20-minute Address</u> S 202 Min Huang , Chinese Academy of Sciences Superconvergence of Iterated Hybrid Collocation Methods for Volterra Integral Equations	
12:00	Lunch (Fourth Floor of Wu-Ke Hotel)		
	Chair: Xiaochun Li	Chair: Jingfang Huang	
14:00-14:40	<u>40-minute Address</u> S 201 Zhongkai Li , Capital Normal University Some Wiener-Plancherel Formulas for Hankel and Dunkl Transforms	<u>40-minute Address</u> S 202 Lihua Yang , Zhongshan University Some Notes on Instantaneous Frequency, Mono-components and Empirical AM/FM Demodulation	
14:40-15:20	<u>40-minute Address</u> S 201 Dunyan Yan , Graduate University of CAS A Characterization of Singular Integral Transforms of Product Functions by Commutator and Some Approximation Theorems	<u>40-minute Address</u> S 202 Luoqing Li , Hubei University Blaschke Bases and Analytic Signals	
15:20-15:40	<u>20-minute Address</u> S 201 Guantie Deng , Beijing Normal University Integral Representations of Harmonic Functions in Half Spaces	<u>20-minute Address</u> S 202 Yunzhang Li , Beijing Univ. of Technology Holes in the Spectrum of Functions Generating Orthonormal Affine Systems	
15:40-16:00	Tea Break		
	Chair: Guantie Deng	Chair: Youming Liu	
16:00-16:20	<u>20-minute Address</u> S 201 Chaoqiang Tan , Zhongshan University Singular Integral Operators with Non-smooth Kernels on Product Domains	<u>20-minute Address</u> S 202 Junfeng Li , Beijing Normal University On the Low Regularity of the Modified Korteweg de Vries Equation with a Dissipative Term	
16:20-16:40	<u>20-minute Address</u> S 201 Xiangxing Tao , Ningbo University The Boundedness of Littlewood-Paley Operators in Generalized Orlicz-Campanato Spaces	<u>20-minute Address</u> S 202 Changmei Tan , Chongqing wenli University To be announced	

18:00	Banquet (Fouth Floor of Wu-Ke Hotel)		
Wednesday, June 21			
8:00–9:00	<u>Plenary Address</u> S 201 Lizhong Peng , Peking University (Chair: Rongqing Jia) Localization Operators and Weyl Transforms		
	Chair: Lihua Yang	Chair: Daoqing Dai	
9:00–9:40	<u>40-minute Address</u> S 201 Changxing Miao , Chinese Academy of Sciences Harmonic Analysis Method for the Navier–Stokes Equations	<u>40-minute Address</u> N 306 Jingfang Huang , Univ. of North Carolina An order N Algorithm for Electrostatic Interactions in Biomolecular Systems	
9:40–10:00	<u>20-minute Address</u> S 201 Yan Meng , Renmin University, New Atomic Characterization of Hardy Space $H^1(\mu)$ and its Application	<u>20-minute Address</u> N 306 Dale Struble , Syracuse University Contractive mappings for Use in the construction of Wavelets on Compact Sets	
10:00–10:20	Tea Break		
	Chair: Gensun Fang	Chair: Huoxiong Wu	
10:20–10:40	<u>20-minute Address</u> S 201 Xuehua Li , Beijing Normal University Optimal Quadrature Problem on Hardy–Sobolev Classes	<u>20-minute Address</u> N 306 Naokant Deo , Graduate University of CAS An Quantitative Estimate of Approximation by Positive Linear Operators	
10:40–11:00	<u>20-minute Address</u> S 201 Hua Wang , Zhongshan University Global Well-posedness of the Cauchy Problem of the Fifth-order Shallow Water Equation		
12:00 Lunch (Fouth Floor of Wu-Ke Hotel)			
Closing			