

ICAIPA-2022 Program schedule

Venue: NAC 522 (Seminar Hall), Department of Mathematics, IIT Madras

Program Day- I (18-07-2022) (Monday)

8:30-9:00	Registration	
9:00-9:15	Inauguration of the conference and welcome address by Prof. V. Vetrivel, Head, Department of Mathematics, IIT Madras	
Session-I Session Chair: R. Radha		
9:15-10:00	S.H. Kulkarni	G1-Class Elements in a Banach Algebra
10:00-10:45	Rekha P. Kulkarni	Approximate Solution of Weakly Singular Integral Equations
Coffee /Tea Break (10:45-11:15)		
Session-II Session Chair: M.Thamban Nair		
11:15-12:00	K.T. Joseph	On Multi-Dimensional Zero Pressure Gas Dynamics System
12:00-12:45	Venky Krishnan	Stability estimates for an inverse problem for a hyperbolic PDE with space- and time-dependent coefficients
Lunch Break (12:45-14:00)		
Session –III Session Chair: S. Sivananthan		
14:00-14:45	Bharath K Sriperumbudur	Johnson & Lindenstrauss meet Hilbert at a Kernel
14:45-15:30	Manas Kar	The Fractional p -Biharmonic Systems: Unique Continuation and Inverse Problems
Coffee /Tea Break (15:30-15:45)		
Session-IV		
15:45-16:15	Group Discussion	
16:15-17:30	Paper Presentations (Parallel Sessions)	Session Chairs: 1) Durga Prasad Challa 2) E. Shinelal

Online Session

Session-V	Virtual Session Session Chair: S. Sivananthan	
20:00-20:45	Hrushikesh Mhaskar	Local approximation of operators
20:45-21:30	Yuesheng Xu	Sparse Machine Learning in Banach Spaces

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Program Day-II (19-07-2022) (Tuesday)

Session-I Session Chair: S.H. Kulkarni		
9:00-9:45	S. Kesavan	On the degenerate algebraic Riccati equation
9:45-10:30	G. Ramesh	On absolutely norm attaining operators
Coffee /Tea Break (10:30-11:00)		
Session-II Session Chair: M.P. Rajan		
11:00-11:45	Andres M. Encinas	Discrete Operators on Networks
11:45-12:30	K.C. Sivakumar	Inverse M-matrices: A brief survey and recent results.
Lunch Break (12:30-14:00)		
Session -III Session Chair: Santhosh George		
14:00-14:45	Robert Plato	Nonlinear Tikhonov Regularization with Oversmoothing Penalty Term
14:45-15:30	Laurence Grammont	Projection based approximations to solve integral equation of the first kind
Coffee /Tea Break (15:30-15:45)		
Session IV		
15:45-16:15	Group Discussion	
16:15-17:30	Paper Presentations (Parallel sessions)	Session Chairs: 1) Ajoy Jana 2) K.P. Deepesh

Online Session

Session-V	Virtual Session Session Chair: P. Jidesh	
20:00-20:45	Shuai Lu	Data assimilation from a viewpoint of regularization theory
20:45-21:30	Anatoly Yagola	Solution of the Inverse Elastography Problem

Program Day- III (20-07-2022) (Wednesday)

Session-I Session Chair: Arindama Singh		
9:00-9:45	A.K. Nandakumaran	Asymptotic Analysis of an Optimal Control Problem of Oscillating PDE in a Rough Domain with Curved Interface
9:45-10:30	Durga Prasad Challa	Recovering the index of Refraction by Embedding Small Inclusions
Coffee /Tea Break (10:30-11:00)		
Session-II Session Chair: P. Veeramani		
11:00-11:45	M. Krishna	A possible quantum theory of dark matter
11:45-12:30	Uday K Khankhoje	Linear and nonlinear inverse problems in Electromagnetic fields
Lunch Break (12:30-14:00)		
Session -III Session Chair: A.K. Nandakumaran		
14:00-14:45	Santhosh George	Prof. M. Thamban Nair: Works and Contributions
14:45-16:15	Felicitations to Prof. M. Thamban Nair	

Program Day-IV (21-07-2022) (Thursday)

Session-I Session Chair: S. Kesavan		
9:00-9:45	N. Sukavanam	Controllability of linear and semilinear systems
9:45-10:30	Sarath Sasi	The eigenvalue problem for the Robin p -Laplacian
Coffee /Tea Break (10:30-11:00)		
Session-II Session Chair: M. Krishna		
11:00-11:45	Philipp Kuegler	Computational Cardiology for Drug Safety Testing
11:45-12:30	Hariharan Narayanan	Fitting a manifold of large reach to noisy data
Lunch Break (12:30-14:00)		
Session -III Session Chair: Pallavi Mahale		
14:00-14:45	Sergei Pereverzyev	Aggregation by the Linear Functional Strategy in Regularized Domain Adaptation
14:45-15:30	Peter Mathe	Randomization in inverse problems in Hilbert space
Coffee/Tea Break (15:30-15:45)		
16:00 - 18:00 Campus tour		