National Conference on

HARMONIC ANALYSIS AND APPLICATIONS

Organized by
Department of Mathematics & Computing
IIT(ISM), Dhanbad

DECEMBER 02 - 04, 2022

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Head, Dept. of Mathematics & Computing, IIT (ISM) Dhanbad

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INVITED SPEAKERS (TENTATIVE)

Prof. (Retd.). B. N. Mandal, FNASc, FIMA (UK), ISI, Kolkata
Prof. Ajay Kumar, FNASc, University of Delhi
Prof. Sandeep Kumar, IIT, BHU Varanasi
Prof. P. K. Ratna Kumar, HRI, Allahabad
Prof. Biswaranjan Behera, ISI, Kolkata
Prof. S. K. Upadhyay, IIT, BHU Varanasi
Prof. Pankaj Jain, South Asian University, Delhi
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Convener
Prof. Akhilesh Prasad
Ph: 9431711231
E-mail: aprasad@iitism.ac.in
Co- convener
Prof. A. Antony Selvan
Ph: 6291016709
E-mail: antony@iitism.ac.in
Organizing Secretary
Prof. Anurag Jayswal
Ph: 9431122002
E-mail: anurag@iitism.ac.in

Organized by
Department Of Mathematics & Computing
Indian Institute of Technology
(Indian School of Mines)
Dhanbad-826 004
Jharkhand, India

INTRODUCTION

Harmonic Analysis is a vast subject with applications in areas as diverse as number theory, signal and image processing, quantum mechanics, partial differential equations, probability theory, and geometry. It was initially devoted to the study of Fourier series and integrals. The generalized bases that we now understand, such Fourier frames, wavelets, and Gabor frames, can be very effective tools for compressing, storing and reconstructing data. The use of integral transforms is crucial in the solutions of initial and boundary value problems in partial differential equations. In particular, Pseudo-differential operators are effective tools to understand partial differential equations with non-constant coefficients. In the theory of partial differential equations, distributions are often used because it may simpler to prove the existence of distributional solutions than classical ones or because there might not be any suitable classical solutions.

ABOUT THE CONFERENCE/OBJECTIVES

National Conference on Harmonic Analysis and Applications aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences, research results and ideas on all aspects of Harmonic Analysis and Applications. The conference is to provide a platform where the participants can benefit from the lectures delivered by some eminent experts across the country on the field of Harmonic Analysis and related areas. It also provides a premier interdisciplinary platform for young researchers to present and discuss the issues, challenges, strategies, and recent trends in the field of Harmonic Analysis and Applications. The program will be useful to mathematicians, scientists and engineers intending to step into this fascinating area.

TOPICS OF INTEREST INCLUDE:

Distributions, Elliptic Equations, Frame Theory, Integral Transforms, Pseudo-Differential Operators, Sampling Theory, Sobolev Spaces, Wavelet Analysis, Heisenberg Group, etc.

ELIGIBILITY CRITERIA

The programme is aimed at mathematics, science and engineering scholars, faculty & scientists who wish to gain a basic understanding of the concepts involved and advanced tools of topics.

REGISTRATION FEE

The following registration fee includes kit, working lunch, tea & snacks on all the three days (with no accommodation)

For Faculty	Rs. 3500/-
Research Scholars and PG Students	Rs. 3000/-

The following registration fee includes kit, breakfast, working lunch, tea & snacks, dinner and Accommodation, on all the three days

For Faculty	Rs. 5000/-
Research Scholars and PG Students	Rs. 4000/-
Industry and R&D Organizations	Rs. 6000/-

The details for online transaction (for releasing amount through e-payment):
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Note: The filled in registration form along with the copy of e-payment transaction details and abstract for paper presentation should be sent to Convener/Co-convener of conference through e-mail latest by November 15, 2022. Moreover, indicate your name and account holder's name when submitting a payment.

Last Date for Registration/Abstract (word file) of Paper Submission:

ABOUT THE DEPARTMENT

The Department of Mathematics & Computing is a highly reputed Department which functions with excellence as its motto. It was started in the year 1926 along with other Engineering and Science Departments of the institute and has established itself as a dynamic centre for academic and research activities. In addition to the teaching of courses in Mathematics for B. Tech and M. Tech programmes, the Department offers three programmes, M. Sc. (Mathematics & Computing), 5 Yr. Int. M. Tech (Mathematics and Computing), and M. Tech (Data Analytics). The faculties are actively engaged in research in diverse fields such as Analysis, Algebra, Topology, Operations Research, Cryptography, Graph Theory, Solid Mechanics, Fluid Dynamics, and Mathematical Modelling, Celestial Mechanics & Dynamical Astronomy, Advance Data Structures, Machine Learning, Reliability, Sample Surveys, Biostatistics, Bayesian Survival Analysis. At present, there are 24 Faculty members and more than 70 Research Scholars in the department. The Department has a full-fledged computation laboratory to meet the requirements of the M.Sc. students, research scholars and the faculty members.

ABOUT THE INSTITUTE

Indian Institute of Technology (Indian School of Mines) is a fully residential technical institute having all modern amenities located in the mineral-rich belt of India in the city of Dhanbad, Jharkhand. It was established in 1926 on the lines of the Royal School of Mines, London. It is a technical institute of international acclaim offering a host of programmes like B. Tech, M. Tech, M. Sc., M. Sc. Tech., Integrated M. Tech., and MBA. It also offers Ph.D. programmes. The institute admits students through IIT-JEE, JAM, and GATE/NET Exam in respective programmes.

HOW TO REACH IIT (ISM), DHANBAD

By Train: Nearest railway station – Dhanbad Junction (Around 2.5 KM).
By Air: Nearest Air Port- Kazi Nazrul Islam Air Port, Durgapur (95 KM)/ Netaji Subhash Chandra Bose International Air Port, Kolkata (270 KM).