



KALASALINGAM
ACADEMY OF RESEARCH AND EDUCATION
(DEEMED TO BE UNIVERSITY)

Under sec. 3 of UGC Act 1956. Accredited by NAAC with "A++" Grade



ICAFD
2024



UWI



6th International Conference on

APPLICATIONS OF FLUID DYNAMICS

December 5th-7th, 2024

Organized by

Kalasalingam Academy of Research and Education

(Deemed to be University), India

In collaboration with

The University of the West Indies

St. Augustine campus, Trinidad & Tobago, West Indies

&

The University of Dodoma

Dodoma, Tanzania

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Department of Mathematics, KARE

About the KARE

Kalasalingam Academy of Research and Education (KARE) formerly Arulmigu Kalasalingam College of Engineering was established in 1984 by the pioneering KalasalingamAnandamAmmal Charities. Located at the pristine foothills of the scenic Western Ghats, the college obtained the Deemed to be University status in 2006. The Institution has been serving the society for forty four long years and it caters to the needs of the students from all walks of the society. KARE offers UG programmes, PG programmes and Ph.D programmes. It is the first Institution in India to introduce a special B.Techprogramme in engineering for the differently able (speech and hearing impaired) students. The Institution has been re-accredited by NAAC with 'A++' grade in 2024. 8 UG & 3 PG programmes have been accredited by NBA under Tier-1. The Institution continues to do indefatigable work in getting projects and research centers. It has received DST funding to establish the National Center for Advance Research in Discrete Mathematics. KARE has got the state of the art International Research Center with splendid high end instruments for advanced research in material sciences and life sciences. Multistoried separate hostels with plenty of facilities provide accommodation to thousands of students. The institution has spent exorbitant sum to create a world class swimming pool and indoor auditorium for sports. Furthermore KARE gives utmost importance to Intra-mural and Extra mural activities for the holistic development of the students.

About the Department of Mathematics

The Department of Mathematics of School of Advanced Sciences was started at the time of inception of the college in 1984 .Since then its excellence in each and every aspect has played a crucial role in the development of all the departments of various schools of KARE. The Mathematics department is offering B.Sc(Honours), M.Sc(Mathematics) and Ph.D programmes. The Faculty team are from various fields of specializations like Graph Theory, Statistics, Fuzzy Mathematics, Queuing Models, Complex Analysis, Control Theory, Stochastic Differential Equations, Variational Inequality, Counting Theory, Fixed Point Theory, Fluid Dynamics etc., The department has well equipped laboratories through which creative ideas are sown in the minds of the students and trainings are imparted in various skills for both employability and professional all round development.

Theme

Advancements in Applied Mathematics and Fluid Dynamics: Exploring Contemporary Developments

Objectives

ICAFD 2024 aspires to establish a prominent international platform, uniting scientists, engineers, and industrial experts. Its purpose is to highlight the latest accomplishments and innovations in Applied Mathematics and Mechanics across diverse fields, encouraging discussions on pioneering developments and challenges. The conference seeks to chart potential directions for the future, emphasizing the advancement of theory and practice in various disciplines of Applied Mathematics and Mechanics. Through the promotion of scientific and educational activities, the conference aims to contribute to the improvement of the common person's quality of life. The event will include a keynote address and invited talks by distinguished speakers globally, along with oral presentations by researchers and practitioners. These sessions will delve into recent innovations, trends, concerns, and practical solutions, focusing on the various applications within the field of Fluid Dynamics.

Topics

Interest are as of the conference include but are not limited to

- Mathematical Modelling, Scientific Computing and Algorithms
- Biomathematics and Fluid Dynamics
- Thermal Engineering and Chemical Engineering
- Design Engineering and Civil Engineering
- Industrial Engineering
- Mathematical Physics, Mathematical Chemistry
- Theoretical Mechanics
- Dynamical Systems
- Disease Model, Decision Sciences
- Mineral and Energy Resources
- Optimal Control and Simulations
- Stochastic models
- Complexity, Approximation
- Error Analysis and Interval Analysis
- Time - Frequency Localization
- Stochastic Differential Equations
- Difference Equations and Recurrence Relations
- Decomposition and Reconstruction Algorithms
- Multi grid Methods
- Fixed Point Theories,
- Phase - Space Analysis
- Introduction to Fluid Dynamics and Its Biological and Medical Applications
- Computational Fluid Dynamics Study in Biomedical Applications
- Flow Visualization and Image Processing
- Quantitative image processing in fluid mechanics
- Computational Fluid Dynamics Applications in Food Processing
- Applied Fluid Mechanics in the Environment, Technology and Health
- Applications of Fluid Mechanics in Aviation, Engineering Application, Shipbuilding

Paper and Abstract Submission

Participants wishing to present a paper at the conference should submit through email (icafd2024@gmail.com) a concise abstract consisting not more than 500 words. All the abstracts/ full length papers must be written in English language. Once the abstract is accepted, the participant will be asked to complete their Full-Length Manuscript Submission. The selected papers will be published with no APC charges in the special issue of the following journal.

Publications Journal for Special Issues of ICAFD 2024

Physics of Fluids, AIP Publishing LLC (Q1, SCIE & Scopus) <https://pubs.aip.org/aip/pcf>

Note: The publication of such papers will be as per the journal guidelines and review processes. A message will be issued to the participant based on the reviewer's suggestion.

Full Paper Template : As per Physics of Fluids journal norms.

Full Paper Submission : <https://forms.gle/CFNDV3jcSHCKJui9>



<https://www.icafd.co.in/>



Important Dates

Important dates

Beginning of Submission of Abstract / Extended Abstract **March 18, 2024**

Notification of Acceptance **June 30, 2024**

Last date for full-length paper **August 30, 2024**

Last date for Conference Registration **October 30, 2024**

Conference Date **December 5th-7th 2024**

Registration Fees (Including GST)

DELEGATES	INDIAN PARTICIPANT	FOREIGN PARTICIPANT
With Paper		
Student/Research Scholars	Rs.3000/-	USD 100
Faculty	Rs.5000/-	USD 150
Industry & R&D Organization	Rs.10000/-	USD 250
Without Paper		
Student/Research Scholars	Rs.1000/-	USD 50
Faculty	Rs.1500/-	USD 75
Industry & R&D Organization	Rs.5000/-	USD 125

Participants are request to kindly Pay your Registration Fees before submitting the registration form (<https://forms.gle/CFNDV3jcSHCKJui9>). Take a screenshot of payment to complete the process.

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Note:

1. Delegate name must be written in the bank transaction.
2. The registration fees include, cost of tea/coffee, snacks, working lunch and banquet dinner. Accommodation is not included, for accommodation please refers to the information given in the conference website.



Contact Details



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