

Track 1: Fluid Mechanics

- Computational Mathematics
- Computational Fluid Dynamics
- Finite Element Analysis
- Numerical Methods for Fluid Mechanics
- Multiphase flow in Engineering Application
- Applications of AI in Fluid Mechanics

Track 2 : Graph Theory

- Labelling/Coloring
- Domination
- Graph Theory Applications in Engineering
- Cryptography and Coding Theory
- Combinatorial Optimization
- Discrete Mathematics

Track 3 : Operational Research

- Mathematical Modelling for Industry
- Supply chain Management
- Mathematics and the Environment
- Multi objective optimization
- Decision analysis and support system
- Heuristic algorithm & its application
- Transportation & Scheduling problems
- Optimization techniques in real world problem

Track 4 : Computational Mathematics

- Quantum Computing
- Data Science & Analytics
- Data Mining Algorithms
- Mathematical Biology
- Algorithm Design
- Financial Mathematics

Track 5 : Mathematics and Technology

- Data Science and Analytics
- Linear Algebra
- Computational Algebra
- Differential Geometry
- Probability and Statistics
- Integro Differential equation calculus
- Fractional Differential Equation
- Mathematical Biochemistry

The scope of the conference includes but is not limited to the listed area



PUBLICATION INFORMATION

Papers that are submitted will be subjected to plagiarism checks and blind reviews. All accepted papers under this conference will be published in SCOPUS Indexed/Web of Science Journals. *Upon Selection of the papers, Article Processing Charges will be applicable for publishing papers in SCOPUS Indexed / Web of Science.

The approached Journals are:

Mathematics in computer science-Q3

Journal of applied mathematics and informatics-Q4

(*Approval Pending)

For Registration & Submission Of Paper

Visit

iccmdsai.dsce.edu.in

Registraion Link:

<https://forms.gle/ZspW1GMXwBNoJ3Ca9>

email:

iccmdsai@dayanandasagar.edu

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DAYANANDA SAGAR COLLEGE OF ENGINEERING

Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru, Karnataka 560078.
An Autonomous Institute Affiliated to VTU Approved by AICTE and UGC, Accredited
by NAAC 'A' Grade & ISO 9001:2015 Certified Institution

Department of Mathematics
in association with
Operational Research Society
of India-Karnataka

International Conference On
Computational Mathematics In the Era
Of Data Science & Artificial
Intelligence

(ICCMDSAI - 2025)

February 21st- 22nd, 2025

Hybrid Mode

IMPORTANT DATES

| | |
|--------------------------------|----------------------------|
| Abstract Submission | : 5th December 2024 |
| Paper Submission | : 5th January 2025 |
| Acceptance Notification | : 20th January 2025 |
| Registration | : 25th January 2025 |



Technical Partners



About DSCE

Dayananda Sagar College of Engineering (DSCE) is an autonomous Institute affiliated to Visvesvaraya Technological University (VTU) Belagavi, approved by AICTE & UGC, Government of India. It has widest choice of engineering branches having 18 Under Graduate courses & 9 Post Graduate courses. In addition, it has 20 Research centers in various branches of engineering catering to research scholars for obtaining Ph.D. degree under VTU. DSCE is accredited by NAAC with 'A' grade. The Institute is spread over 29 acres of land with large infrastructure supported by laboratories with State-of-the-Art, Equipment & Machines. The Central Library with modern facilities and the Digital Library provides the knowledge base for the students. The college has good faculty strength with highest professional integrity & committed to the academics with transparency in their actions. The faculty members are research oriented having number of sponsored R & D projects from different agencies such as DST-SERB, DRDO, ISRO, VGST & AICTE.

About Department Of Mathematics

The department of Mathematics at DSCE was established in the year 1979 with a vision of "creating lifelong competent and socially innovative Engineers, capable of working in multi-cultural environment in the world". The subject, that seeks to establish the truth by arduous deduction, being the core foundation of the Field of Engineering, aids to build Analytical, Reasoning & Logical skills of the future Engineers and Researchers. The department caters for first & second year BE courses including lab components, Institutional electives being offered during higher semesters. The Department has R&D center, established in 2013, affiliated to Visvesvaraya Technological University, Belagavi, through which it offers Ph.D. programs in various specializations of Mathematics. Faculty with research interests in virtually every area of mathematics and are regularly publishing quality research papers in peer-reviewed National and International Journals. The department has a strong Industry connection through which the curriculum is designed and implemented and an MOU with KSTA and ORSI Karnataka chapter. Also department has Center of Excellence with The MathCo company and has sponsored R&D project from ISRO and ICSSR, and financial support from ATAL-AICTE to conduct FDP's. There are 15 National & International published and granted patents to the credit to the department. The department has a student & Faculty club in Mathematics which provides a unique platform for various disciplines.

Registration Fee (Only for Presenters)

| Registration type | Early bird | Before 25/01/25 |
|----------------------------|------------|-----------------|
| Students (UG /PG) | 700 INR | 1000 INR |
| Faculty / Research Scholar | 1500 INR | 2000 INR |
| Industry / R & D | 2000 INR | 2500 INR |
| Foreign Author | 50 USD | 75 USD |

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About the Conference

The prime objective of two days International conference on " Computational Mathematics In The Era Of Data Science and Artificial Intelligence" is to bring the experts from academia and industry to share their knowledge pertaining to the real-world applications. The conference includes keynote address and invited talks by the eminent speakers, and the oral presentation by researchers. This conference will provide a premium forum for young researchers, faculty, and students to share and discuss novel ideas and keep themselves abreast.

Main topics: The organizing committee of the conference invites papers from researchers on the following thrust areas and related topics (but not limited to).

- Applied Mathematics
- Computational Fluid Dynamics
- Computational Modeling in Engineering and Sciences
- Computational Methods for Linear and Nonlinear Optimization
- Data Analysis and Statistics
- Differential Equations
- Graph theory and Applications
- Mathematical Models for Computer Science
- Numerical Methods and applications
- Processing, Modelling and describing time series
- Computational Mathematics