

CONFERENCE ON RECENT DEVELOPMENTS IN APPLIED & COMPUTATIONAL MATHEMATICS (RDACM 2026)

**Indian Institute of Space Science and Technology
Thiruvananthapuram - 695 547**

15th - 17th January, 2026

Sl No	Name	Institute	Participant/ Speaker	Designation	Title(If presenting)
1	Prof. M C Joshi	IIT Gandhinagar	Keynote Speaker	Professor	AI - With Mathematical Perspective
2	Prof. S Sundar	IIT Madras	Keynote Speaker	Professor	A meshless shock-capturing method for solving the shallow water equations
3	Prof. A K Pani	BITS Pilani, Goa Campus	Keynote Speaker	Professor	Through Eyes of Feedback Control: How does External Stimulus Influence Research in Applied Mathematics
4	Prof. Mythily Ramaswamy	ICTS-TIFR, Bangalore	Keynote Speaker	Professor	Stabilization of certain coupled systems
5	Prof. Vijay D. Pathak	MS University, Baroda	Keynote Speaker	Professor	Matrix Multiplication Algorithms as a Tensor game
6	Prof. M Thamban Nair	IIT Madras	Keynote Speaker	Professor	A finite data based reconstruction and regularization in normed linear space setting
7	Prof. M K Kadalbajoo	IIT Kanpur	Keynote Speaker	Professor	Machine Learning: A New Paradigm for Scientific Modelling

SPEAKERS

Sl No	Name	Institute	Participant/ Speaker	Designation	Title(If presenting)
8	Prof. Natesan Srinivasan	IIT Guwahati	Keynote Speaker	Professor	A Novel Operator-Splitting NIPG FEM for 2D Time-Fractional Diffusion Problem
9	Prof. Daniele Boffi	KAUST Saudi Arabia	Keynote Speaker	Professor	Finite element approximation of parameter dependent eigenvalue problems
10	Prof. Lucia Gastaldi	University of Brescia	Keynote Speaker	Professor	Finite element approximation of fsi problems: a Fictitious domain formulation
11	Prof. N Sukavanam	VIT Vellore	Keynote Speaker	Professor	Controllability and computation of control
12	Prof. A K Nandakumaran	IISc Bangalore	Keynote Speaker	Professor	Exact Controllability for a Problem with Imperfect Interface via Hilbert Uniqueness Method
13	Prof. Rajen Kumar Sinha	IIT Guwahati	Keynote Speaker	Professor	A Posteriori Error Estimates for Parabolic Optimal Control Problems with Lower-Dimensional Controls
14	Prof. P. Balasubramaniam	The Gandhigram Rural Institute	Keynote Speaker	Professor	RSA vs Quantum Computing: The Mathematical Breakdown
15	Prof. K Balachandran	Bharathiar University, Coimbatore	Keynote Speaker	Professor	Stability and Stabilizability of Fractional Dynamical Systems
16	Prof. T R Ramamohan	M S Ramaiah Institute of Technology	Keynote Speaker	Professor	Introduction to Nonlinear Time Series Analysis

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Sl No	Name	Institute	Participant/ Speaker	Designation	Title(If presenting)
17	Prof. M P Rajan	IISER, Trivandrum	Keynote Speaker	Professor	Inverse Problems and Its Applications
18	Dr Satyananda Panda	NIT Calicut	Keynote Speaker	Professor	Fiber Spinning Using Rolie-Poly Fluid
19	Prof. Kapil Kumar Sharma	South Asian University, Delhi	Keynote Speaker	Professor	Singularly Perturbed Models: Challenges, Mitigations & Recent Developments
20	Prof. V O Thomas	MS University, Baroda	Keynote Speaker	Professor	Restricted Three Body Problem
21	Prof. B V Ratish Kumar	IIT Kanpur	Keynote Speaker	Professor	Stabilized Methods for PDEs: Theory, Computation and Application
22	Prof. A K Anilkumar	ISTRAC, Bangalore	Invited Speaker	Professor	Sustainable Outer Space for a Safer Future
23	Dr. Ajit Patel	LNMIIT, Jaipur	Invited Speaker	Professor	Primal hybrid method for weakly damped Klein-Gordon equations
24	Dr. Jugal Mohapatra	National Institute of Technology Rourkela	Invited Speaker	Professor	On numerical approximations of nonlocal conservation laws
25	Dr. Aekta Aggarwal	IIM Indore	Invited Speaker	Professor	Stability Estimates for Non-Local Conservation Laws
26	Dr. Sheetal Dharmatti	IISER, Trivandrum	Invited Speaker	Professor	Boundary Control for Cahn-Hilliard- Navier-Stokes equations
27	Dr. K Satheesh Kumar	Digital University, Kerala	Invited Speaker	Professor	Time SeriesnA-Induced Network Forecasting: A Structural Alternative to Machine Learning Models

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Sl No	Name	Institute	Participant/ Speaker	Designation	Title(If presenting)
28	Dr. Debasish Pradhan	DIAT Pune	Invited Speaker	Professor	Fictitious domain method with penalty to solve PDEs over curved-complex domains
29	Dr. Ganesh Vaidya	IISc Bangalore	Invited Speaker	Professor	On the uniqueness of entropy solutions for systems of conservations laws
30	Dr. Anil Kumar	BITS, Pilani - K.K. Birla Goa Campus, Goa	Invited Speaker	Professor	Physics-Informed Neural Networks Framework for Numerically Solving Differential Equation-Constrained Optimal Control Problems
31	Dr. T K Manoj Kumar	Digital University, Kerala	Invited Speaker	Professor	Large Language Models in Space Science: Opportunities, Adaptation, and Challenges
32	Dr. Nagaiah Chamakuri	IISER Thiruvananthapuram	Invited Speaker	Professor	Challenges in Solving Large scale PDE-constrained Optimization
33	Dr. K R Arun	IISER TVM	Invited Speaker	Professor	A structure-preserving scheme for dissipative solutions of the rotating shallow water system
34	Dr. Muslim Malik	IIT Mandi	Invited Speaker	Professor	Solutions of Delay Differential Equations by using PINNs
35	Dr. R K Sharma	VSSC(Retd.)	Invited Speaker	Professor	Design of Interplanetary Trajectories
36	Dr. Sudarshan Kumar K	IISER Trivandrum	Invited Speaker	Professor	On numerical approximations of nonlocal conservation laws

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37	Dr. Gowrisankar S	Naional Institute of Technology Patna	Invited Speaker	Professor	A parameter-uniform numerical methods for singularly perturbed problems on equidistributed grids
38	Dr. Javid Ali	Aligargh Muslim University	Invited Speaker	Professor	Controllability of -Hilfer Fractional Dynamical Systems with Delay
39	Dr. Pooja Dutt	VSSC, Trivandrum	Invited Speaker	Professor	On Analytical Orbit Predictions in terms of KS Regular Elementstomas
40	Dr. Sangita Yadav	BITS Pilani, Pilani Campus	Invited Speaker	Professor	On two conservative HDG Schemes for Nonlinear Klein-Gordan Equation
41	Dr. Asha Kisan Dond	IISER, Trivandrum	Invited Speaker	Professor	Adaptive FEM for pointwise-tracking optimal control problems with a point source governed by biharmonic equation
42	Dr. Gujji Murali Mohan Redy	BITS Pilani Hyderabad Campus	Invited Speaker	Professor	Elliptic reconstruction and a posteriori error estimates for parabolic partial differential equations with small random input data
43	Dr. Kunwer Singh Mathur	Jawaharlal Nehru University New Delhi	Invited Speaker	Professor	Media-Driven Control of Food-Adulteration-Induced Diseases: Model and Analysis
44	Dr. Sishu Shankar Muni	Digital University Kerala	Invited Speaker	Professor	Resonant torus doubling bifurcation in three-dimensional maps
45	Prof. Trilochan Sahoo	IIT Kharagpur	Invited Speaker	Professor	Fourier Analysis for Flexural-Gravity Wave Blocking across Arctic Ice and Marine Infrastructure
46	Prof. Vikas Gupta	LNMIIT, Jaipur	Invited Speaker	Professor	Second-order finite difference scheme for singularly perturbed interior turning point problem with interior layers