

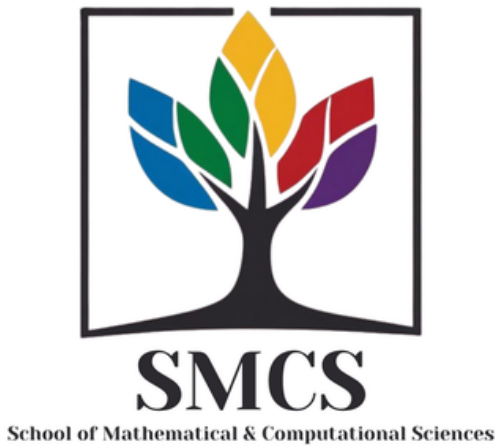
Indian Association for the Cultivation of Science

School of Mathematical & Computational Sciences

SMCS Symposium 2026

March 20 (Friday), 2026

Venue: S N Bose Hall



Programme Schedule

Time	Talk Title & Speaker Name
10:40 AM – 10:50 AM Inauguration	Address by Prof. Kalobaran Maiti, Director, IACS
10:50 AM – 11:00 AM	Welcome Note by Dr. Partha Basuchowdhuri, Chair - SMCS
11:00 AM – 11:45 AM Invited Talk	Set-Theoretic intersection for Curves and Surfaces Associate Prof. MD. Ali Zinna (IISER Kolkata)
Coffee Break (11:45 AM – 12:00 PM)	
12:00 PM – 12:10 PM PhD Student Talk	Matricial Ranges of Jordan Blocks and Dilation Techniques Atanu Dhang
12:10 PM – 12:20 PM PhD Student Talk	Hausdorff dimension of Julia sets Maitree Pal
12:20 PM – 12:30 PM Group Overview	Harnessing the Power of Deep Learning Frameworks Dr. Partha Basuchowdhuri
12:30 PM – 12:40 PM PhD Student Talk	Rethinking Query Performance Prediction: From Estimation to Fusion-Driven Retrieval Payel Santra
12:40 PM – 12:50 PM PhD Student Talk	Latent Diffusion Pretraining for Crystal Property Prediction Shrimon Mukherjee
12:50 PM – 01:00 PM PhD Student Talk	Generating crossmodal gene expression from cancer histopathology improves multimodal AI predictions Samiran Dey
01:00 PM – 01:10 PM PhD Student Talk	Probing LLM Reliability with Uncertainty Quantification Girish
Lunch (1:10 PM – 2:30 PM)	

Time	Talk Title & Speaker Name
02:30 PM – 03:15 PM Invited Talk	Democratizing AI across languages: The promise of the Universal Language Model Prof. Sudeshna Sarkar (IIT KGP)
03:15 PM – 03:25PM Group Overview	Formal Verification and Trustworthy AI Dr. Rajarshi Ray
03:25 PM – 03:35 PM PhD Student Talk	Data-Driven Falsification for Cyber-Physical System Atanu Kundu
03:35 PM – 03:45 PM BS-MS Student Talk	Falsification of Cyber-Physical Systems using Causation-Aware Reinforcement Learning Sauvik Gon
03:45 PM – 03:55 PM PhD Student Talk	Multi agent planning Sk Asif Iqbal
04:00 PM – 04:10PM Group Overview	The Worlds I See Dr. Debarshi Kumar Sanyal
04:10 PM – 04:20 PM PhD Student Talk	PERK: Construction and Application of a Personal Email Research Knowledge Graph Prantika Chakrabarty
04:20 PM – 04:30 PM PhD Student Talk	TaxoAlign: Scholarly Taxonomy Generation Using Language Models Avishek Lahiri
04:30 PM – 04:40 PM PhD Student Talk	Enhancing Indian Sign Language Translation via Motion-Aware Modeling Anal Roy Chowdhury
Coffee Break (04:45 PM - 05:00 PM)	
05:00 PM – 05:10 PM Group Overview	Collective Dynamics and Self-organisation Dr. Raja Paul
05:10 PM - 05:20 PM PhD Student Talk	Flocking in Active Lattice Gas with local Ising Interaction Jaydip Barua
05:20 PM – 05:30 PM PhD Student Talk	Chiral breakdown in the non-reciprocal mixed species Vicsek model Aditya Kumar Dutta
05:30 PM - 05:40 PM PhD Student Talk	Modelling viscoelastic cell membrane Prasanta Kumar Biswas

Time	Talk Title & Speaker Name
05:40 PM – 05:55 PM Inspire Faculty	Characterized Subgroups Corresponding to Arithmetic-type Sequences Dr. Ayan Ghosh
05:55 PM – 06:05 PM RA Talk	Neural Acceleration for Long-Horizon Real-Time Control of Autonomous Systems Dr. Arvind Adimoolam
06:05 PM – 06:15 PM RA Talk	S2WTM: Spherical Sliced-Wasserstein Autoencoder for Topic Modeling Dr. Suman Adhya
Prize Distribution Ceremony & Vote of Thanks	