

**CALDAM 2024
Program Schedule (Tentative)**

Day 0: Wednesday, February 14, 2024

7:30 PM - 9:30 PM Welcome Dinner

Day 1: Thursday, February 15, 2024

8:45 AM - 9:15 AM Registration

9:15 AM - 9:30 AM Inaugural Session

9:30 AM - 10:45 AM Invited Talk I
Chair: TBD

Two Heuristic Approaches for Some Special Colorings of Graphs
Iztok Peterin

10:45 AM - 11:15 AM Tea Break

11:15 AM - 12:30 PM **Algorithms and Complexity - I**
Chair:

Consecutive Occurrences with Distance Constraints
Waseem Akram and Sanjeev Saxena
11:15 AM - 11:40 AM

Parameterized Aspects of Distinct Kemeny Rank Aggregation
Koustav De, Harshil Mittal, Palash Dey and Neeldhara Misra
11:40 AM - 12:05 PM

Monitoring edge-geodetic sets in graphs: extremal graphs, bounds, complexity
Florent Foucaud, Pierre-Marie Marcille, Zin Mar Myint, R. B. Sandeep, Sagnik Sen and S Taruni
12:05 PM - 12:30 PM

12:30 PM - 2:00 PM Lunch Break

2:00 PM - 2:50 PM **Algorithms and Complexity - II**
Chair:

Distance-2-Dispersion with Termination by a Strong Team
Barun Gorain, Tanvir Kaur and Kaushik Mondal
2:00 PM - 2:25 PM

On query complexity measures and their relations for symmetric functions

	Sanjay S Nair, Rajat Mittal and Sunayana Patro 2:25 PM - 2:50 PM
2:50 PM - 3:40 PM	Graph Theory - I Chair: Location-domination type problems under the Mycielski construction Silvia M. Bianchi, Dipayan Chakraborty, Yanina Lucarini and Annegret K. Wagler 2:50 PM - 3:15 PM On Total Chromatic Number of Complete Multipartite Graphs Aseem Dalal and B S Panda 3:15 PM - 3:40 PM
3:40 PM - 4:15 PM	Tea Break
4:15 PM - 5:30 PM	Graph Theory - II Chair The Weak-Toll Function of a Graph: Axiomatic Characterizations and First-Order Non-definability Lekshmi Kamal K S, Manoj Changat and Jeny Jacob 4:15 PM - 4:40 PM Total Coloring of Some Graph Operations T Kavaskar and Sreelakshmi Sukumaran 4:40 PM - 5:05 PM Star colouring of regular graphs meets weaving and line graphs Shalu M A and Cyriac Antony 5:05 PM - 5:30 PM
5:30 PM - 6:30 PM	CALDAM Business Meeting ACSDM Business Meeting Chair: Subir Kumar Ghosh
Day 2: Friday, February 16, 2024	
9:30 AM - 10:45 AM	Invited Talk II Chair: TBD Random Deselection Saket Saurabh
10:45 AM - 11:15 AM	Tea Break
11:15 AM - 12:30 PM	Discrete Applied Mathematics Chair:

	<p>An efficient interior point method for linear optimization using modified Newton method Sajad Fathi Hafshejani, Daya Gaur and Robert Benkoczi 11:15 AM - 11:40 AM</p> <p>Unique Least Common Ancestors and Clusters in Directed Acyclic Graphs Ameera Vaheeda Shanavas, Manoj Changat, Marc Hellmuth and Peter F Stadler 11:40 AM - 12:05 PM</p> <p>The Frobenius Problem for the Proth Numbers Pranjal Srivastava and Dhara Thakkar 12:05 PM -12:30 PM</p>
12:30 PM - 2:00 PM	Lunch Break
2:00 PM - 3:40 PM	<p>Computational Geometry Chair:</p> <p>Growth Rate of the Number of Empty Triangles in the Plane Bhaswar B. Bhattacharya, Sandip Das, Sk Samim Islam and Saumya Sen 2:00 PM - 2:25 PM</p> <p>Geometric Covering Number: Covering Points with Curves Arijit Bishnu, Pritam Majumder and Mathew Francis 2:25 PM - 2:50 PM</p> <p>Improved Algorithms for Minimum-Membership Geometric Set Cover Sathish Govindarajan and Siddhartha Sarkar 2:50 PM -3:15 PM</p> <p>Semi-total Domination in Unit Disk Graphs Sasmita Rout and Gautam Kumar Das 3:15 PM - 3:40 PM</p>
3:40 PM - 4:15 PM	Tea Break
4:15 PM - 5:30 PM	<p>Invited Talk III Chair: TBD</p> <p>Total Coloring Conjecture and Classification Problem B. S. Panda</p>
7:30 PM - 9:30 PM	Banquet Dinner
Day 3: Saturday, February 17, 2024	
9:30 AM - 10:45 AM	<p>Graph Algorithms - I Chair:</p>

	<p>Eternal Connected Vertex Cover Problem in Graphs: Complexity and Algorithms Kaustav Paul and Arti Pandey 9:30 AM - 9:55 AM</p> <p>Impact of Diameter and Convex Ordering for Hamiltonicity and Domination Mahendra Kumar R and Sadagopan Narasimhan 9:55 AM - 10:20 AM</p> <p>On Star Partition of Split Graphs Vijayakumar S and Divya D 10:20 AM - 10:45 AM</p>
10:45 AM - 11:15 AM	Tea Break
11:15 AM - 12:05 PM	<p>Graph Algorithms - II Chair:</p> <p>Star Covers and Star Partitions of Cographs and Butterfly-free Graphs Vijayakumar S and Joyashree Mondal 11:15 AM - 11:40 AM</p> <p>Open Packing in H-free Graphs and Subclasses of Split Graphs M A Shalu and V K Kirubakaran 11:40 AM - 12:05 PM</p>
12:05 PM - 12:30 PM	Conclusion
12:30 PM - 2:00 PM	Lunch Break