CALDAM 2025 Conference Schedule

February 13 – 15, 2025

Day 1 (Thursday, Feb 13, 2025)		
08:00 AM	Registration	
08:45 AM	Inauguration	
9:15 AM to	Invited Talk – I Chair: TBD	
10:30 AM	Graph products, prime factorization, unique roots and cancellation Wilfried Imrich	
10:30 AM to 11: 00 AM	Tea Break	
11: 00 AM to 01:05 PM	Graph Theory-1 Chair: TBD	
11:00 AM to 11:25 AM	On full-separating sets in graphs Dipayan Chakraborty and Annegret Wagler	
11:25 AM to 11:50 AM	On a Tight Bound for the Maximum Number of Vertices that Belong to Every Metric Basis Anni Hakanen, Ville Junnila, Tero Laihonen, Havu Miikonen and Ismael G. Yero	
11:50 AM to 12:15 PM	An algebraic characterization of strong graphs Pablo Romero	
12:15 PM to 12:40 PM	Generalized Lettericity of Graphs Zhidan Feng, Henning Fernau, Kevin Mann, Indhumathi Raman and Silas Cato Sacher	
12:40 PM to 01:05 PM	There are finitely many uniformly most reliable graphs of corank 5 Pablo Romero	
01:05 PM to 02:15 PM	Lunch	
02:15 PM To 03:55 PM	Graph Algorithms-1 Chair: TBD	
02:15 PM to 02:40 PM	Extension Perfect Roman Domination Kevin Mann and Henning Fernau	
02:40 PM to 03:05 PM	Packing sets of paths, stars and triangles: tractability and approximability Santiago Ravelo and Flavio K. Miyazawa	

03:05 PM to	Polynomial-time algorithms for PATH COVER on trees and graphs of bounded treewidth
03:30 PM	Florent Foucaud, Atrayee Majumder, Tobias Mömke and Aida Roshany-Tabrizi
03:30 PM to	Structural Parameterization of Minus Domination Sangam Balchandar Reddy and Anjeneya Swami Kare
03:55 PM	
03:55 PM to 04:25 PM	Tea Break
04:25 PM to 06:05 PM	Algorithms and Complexity – 1 Chair: TBD
04:25 PM to 04:50 PM	The MASEMPR problem and its applications in logistics Anand Subramani, K. Subramani, Piotr Wojciechowski and Sangram Kishor Jena
04:50 PM to 05:15 PM	A sub-quadratic algorithm for the minsum one sink location problem on balanced binary tree networks Jannatul Maowa and Robert Benkoczi
05:15 PM to 05:40 PM	Addressing Bias in Algorithmic Solutions: Exploring Vertex Cover and Feedback Vertex Set Sheikh Shakil Akhtar, Jayakrishnan Madathil, Pranabendu Misra and Geevarghese Philip
05:40 PM to 06:05 PM	Partial Domination in Some Geometric Intersection Graphs Madhura Dutta, Anil Maheshwari and Subhas C. Nandy
06.05 PM	CALDAM Business Meeting ACSDM Business Meeting Chair: Subir Kumar Ghosh
	Day 2 (Friday, Feb 14, 2025)
09:15 AM to	Invited Talk - II Chair: TBD
10:30 AM	Disk Graphs and Transmission Graphs Recent Developments Wolfgang Mulzer
10:30 AM To 11:00 AM	Tea Break
11:00 AM to 11:50 AM	Graph Theory - II Chair: TBD
11:00 AM to 11:25 AM	Graceful coloring is computationally hard Cyriac Antony, Jacob Antony, Laavanya D and Devi Yamini S
11:25 AM to 11:50 AM	Broadcast Graph Is NP-complete Jinghan Xu and Zhiyuan Li

11:50 AM	Computational Geometry
to	Chair: TBD
01:05 PM	
11:50 AM to	Maximizing the Maximum Degree in Ordered Nearest Neighbor Graphs Péter Ágoston, Adrian Dumitrescu, Arsenii Sagdeev,
12:15 PM	Karamjeet Singh and Ji Zeng
12.13 FW	
12:15 PM	Multipacking in Euclidean Plane
to	Arun Kumar Das, Sandip Das, Sk Samim Islam, Ritam M Mitra
12:40 PM	and Bodhayan Roy
12:40 PM	Almost Empty Monochromatic Polygons in Planar Point Sets
to	Bhaswar Bhattacharya, Sandip Das, Sk Samim Islam and Saumya Sen
01:05 PM	
1:05 PM	
to	Lunch
02:15 PM	Lunch
02:15 PM	
02:15 PW to	Graph Algorithms - II
03:05 PM	Chair: TBD
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02:15 PM	Parameterized Complexity of Coupon Coloring of Graphs
to	Pradeesha Ashok, Pradyun Devarakonda, Shiven Phogat,
02:40 PM	Swaroop A Ram Rayala and J A Sherin
02:40 PM	On the parameterized Complexity of Odd Coloring
to	Sriram Bhyravarapu, Vinod Reddy and Swati Kumari
03:05 PM	
03:05 PM	A 1 = 11
to	Graph Theory - III
03:55 PM	Chair: TBD
03:05 PM	Total Domination and Open Packing in Two Subclasses of Triangle-
to	free Graphs
03:30 PM	M A Shalu and V K Kirubakaran
03:30 PM	Helly Number, Radon Number and Rank in \$\Delta\$-Convexity
to	on Graphs
03:55 PM	Bijo S. Anand, Arun Anil, Manoj Changat, Revathy S. Nair and Prasanth G. Narasimha-Shenoi
	and Frasantin G. Narasinina-Shenor
03:55 PM	
to	Tea Break
04:25 PM	
	Invited Talk III
04:25 PM	Chair: TBD
to	
05:40 PM	Convex Geometries determined by betweenness axioms
	Manoj Changat
5:40 PM	· · · · ·
to	Felicitation of Prof. Manoj Changat on his retirement
6:40 PM	
7:30 PM	Banquet Dinner
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Day 3 (Saturday, Feb 15, 2025)		
09:15 AM	Algorithms and Complexity - II	
to 10:30 AM	Chair: TBD	
09:15 AM to 09:40 AM	Algorithms and hardness results for the \$(3,1)\$-cover problem Amirali Madani, Anil Maheshwari, Babak Miraftab and Bodhayan Roy	
09:40 AM to 10:05 AM	Two Step Graph Protection Game Saraswati Girish Nanoti and Aakash Ghosh	
10:05 AM to 10:30 AM	Polynomial time algorithms for Hop domination Karthika D, Muthucumaraswamy R, Sriram Bhyravarapu and Pritesh Kumar	
10:30 AM to 11:00 AM	Tea Break	
11:00 AM to 11:50 AM	Graph Algorithms - III Chair: TBD	
11:00 AM to 11:25 AM	Fast FPT Algorithms for Grundy Number on Dense Graphs Sina Ghasemi Nezhad, Maryam Moghaddas and Fahad Panolan	
11:25 AM to 11:50 AM	Polynomial time algorithms for Hop domination Karthika D, Muthucumaraswamy R, Sriram Bhyravarapu and Pritesh Kumar	
11:50 AM to 01:05 PM	Graph Theory - IV Chair: TBD	
11:50 AM to 12:15 PM	Spectra of eccentricity matrices of product of graphs S. Balamoorthy and T. Kavaskar	
12:15 PM to 12:40 PM	Bipartite Domination in Graphs: Complexity and Algorithms Bhawani Sankar Panda, Subhasmita Joshi and Dalu Jacob	
12:40 PM to 01:05 PM	Forbidden induced subgraphs in iterative higher order line graphs Aryan Sanghi, Devsi Bantva and Sudebkumar Prasant Pal	
01:05 PM	Conclusion	
01:20 PM	Lunch	