## **CALDAM 2025 Conference Schedule**

## February 13 – 15, 2025

	February 12, 2025		
06:30 PM	Cultural programme at D block ground floor, PSG Tech		
07.30 PM	Welcome Dinner at JADE Residency dining hall, PSG Guesthouse		
	Day 1 (Thursday, Feb 13, 2025)		
	https://meet.google.com/cfm-bqfr-xod		
08:00 AM	Registration		
08:45 AM	Inauguration		
9:15 AM to	Google Invited Talk – I Chair: TBD		
10:30 AM	Graph products, prime factorization, unique roots and cancellation Wilfried Imrich		
10:30 AM to	Tea Break		
11: 00 AM			
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	Packing sets of paths, stars and triangles: tractability and
to	approximability
03:05 PM	Santiago Ravelo and Flavio K. Miyazawa
	D. L. C. L. W. C. DATHOUVED CO. L. L. C.
03:05 PM	Polynomial-time algorithms for PATH COVER on trees and graphs of bounded treewidth
to	Florent Foucaud, Atrayee Majumder, Tobias Mömke and Aida
03:30 PM	Roshany-Tabrizi
03:30 PM	Structural Parameterization of Minus Domination
to	Sangam Balchandar Reddy and Anjeneya Swami Kare
03:55 PM	, , ,
03:55 PM	
03:55 PW	Tea Break
04:25 PM	rea break
04:25 PM	
to	Algorithms and Complexity – 1 Chair: TBD
06:05 PM	GIIAII. IDD
04.05.514	The MACEMED weekless on the same transfer and the same transfer an
04:25 PM	The MASEMPR problem and its applications in logistics Anand Subramani, K. Subramani, Piotr Wojciechowski and
to 04:50 PM	Sangram Kishor Jena
04.50 1 101	Sangram Nishor Sena
04:50 PM	A sub-quadratic algorithm for the minsum one sink location
to 05:15 PM	problem on balanced binary tree networks Jannatul Maowa and Robert Benkoczi
05. 15 PW	Jannatui Maowa and Robert Benkoczi
05.45.514	Addressing Bias in Algorithmic Solutions: Exploring Vertex Cover and
05:15 PM	Feedback Vertex Set
to 05:40 PM	Sheikh Shakil Akhtar, Jayakrishnan Madathil, Pranabendu
00.40 T W	Misra and Geevarghese Philip
05:40 PM	
to	Partial Domination in Some Geometric Intersection Graphs Madhura Dutta, Apil Mahashwari and Subbas C. Nandy
06:05 PM	Madhura Dutta, Anil Maheshwari and Subhas C. Nandy
	CALDAM Rusiness Meeting
	CALDAM Business Meeting ACSDM Business Meeting
06.05 PM	Chair: Subir Kumar Ghosh
00.45.514	Condolence meeting in memory of Ajit Arvind Diwan
06.45 PM	https://meet.google.com/cfm-bqfr-xod
	Day 2 (Friday, Feb 14, 2025)
	https://meet.google.com/cfm-bgfr-xod
00.45.55	Google Invited Talk - II
09:15 AM	Chair: TBD
to 10:30 AM	Disk Graphs and Transmission Graphs Recent Developments
10.50 AW	Wolfgang Mulzer
10:30 AM	
To	Tea Break
11:00 AM	

11:00 AM to	Graph Theory - II
11:50 AM	Chair: TBD
11:00 AM to	Graceful coloring is computationally hard
11:25 AM	Cyriac Antony, Jacob Antony, Laavanya D and Devi Yamini S
11:25 AM to	Broadcast Graph Is NP-complete
11:50 AM	Jinghan Xu and Zhiyuan Li
11:50 AM to	Computational Geometry Chair: TBD
01:05 PM	Chair: 160
11:50 AM	Maximizing the Maximum Degree in Ordered Nearest Neighbor Graphs Péter Ágoston, Adrian Dumitrescu, Arsenii Sagdeev,
to 12:15 PM	Karamjeet Singh and Ji Zeng
12:15 PM	Multipacking in Euclidean Plane Arun Kumar Das, Sandip Das, Sk Samim Islam, Ritam M Mitra
to 12:40 PM	and Bodhayan Roy
40:40 DM	Almost Frants Manachus matic Polymona in Plancy Point Cata
12:40 PM to	Almost Empty Monochromatic Polygons in Planar Point Sets Bhaswar Bhattacharya, Sandip Das, Sk Samim Islam and Saumya Sen
01:05 PM	
1:05 PM to	Lunch
02:15 PM 02:15 PM	Onesile Almanithuse III
to 03:05 PM	Graph Algorithms - II Chair: TBD
	Parameteria de Carrela
02:15 PM to	Parameterized Complexity of Coupon Coloring of Graphs Pradeesha Ashok, Pradyun Devarakonda, Shiven Phogat,
02:40 PM	Swaroop A Ram Rayala and J A Sherin
02:40 PM to	On the parameterized Complexity of Odd Coloring Sriram Bhyravarapu, Vinod Reddy and Swati Kumari
03:05 PM	Shram Bhyravarapu, vinou Neuuy ahu Swali Ruffiati
03:05 PM to	Graph Theory - III Chair: TBD
03:55 PM 03:05 PM	Total Domination and Open Packing in Two Subclasses of Triangle-
to 03:30 PM	free Graphs  M A Shalu and V K Kirubakaran
	Helly Number, Radon Number and Rank in \$\Delta\$-Convexity
03:30 PM to	on Graphs Bijo S. Anand, Arun Anil, Manoj Changat, Revathy S. Nair
03:55 PM	and Prasanth G. Narasimha-Shenoi
03:55 PM to	Tea Break
04:25 PM	Tod Broak

04:25 PM to	Google Invited Talk III Chair: TBD	
05:40 PM	Convex Geometries determined by betweenness axioms  Manoj Changat	
5:40 PM to 6:40 PM	Felicitation of Prof. Manoj Changat on his retirement	
7:30 PM	Banquet Dinner	
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Day 3 (Saturday, Feb 15, 2025)		
	https://meet.google.com/cfm-bqfr-xod	
09:15 AM to 10:30 AM	Algorithms and Complexity - II 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	Charging Station Placement for Limited Energy Robots Arun Kumar Das	
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	Valedictory
01:20 PM	Lunch