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	Dogistration
	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 11: 00 AM	Tea Break
11: 00 AM	Quanti Theory 4
to	Graph Theory-1 Chair: TBD
01:05 PM	
11:00 AM	On full-separating sets in graphs
to 11:25 AM	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	Lunch
02:15 PM	
02:15 PM To	Graph Algorithms-1
03:55 PM	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 03:30 PM	Polynomial-time algorithms for PATH COVER on trees and graphs of bounded treewidth Florent Foucaud, Atrayee Majumder, Tobias Mömke and Aida Roshany-Tabrizi		
03:30 PM to 03:55 PM	Structural Parameterization of Minus Domination Sangam Balchandar Reddy and Anjeneya Swami Kare		
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		
06.45 PM	Condolence meeting in memory of Ajit Arvind Diwan https://meet.google.com/fbh-fiqj-xfb		
	Day 2 (Friday, Feb 14, 2025) https://meet.google.com/cfm-bqfr-xod		
 09:15 AM	Google Invited Talk - II Chair: TBD		
to 10:30 AM	Disk Graphs and Transmission Graphs Recent Developments Wolfgang Mulzer		
10:30 AM	Too Prook		
To 11:00 AM	Tea Break		

44.00.414	
11:00 AM	Graph Theory - II
to	Chair: TBD
11:50 AM	
11:00 AM	
to	Graceful coloring is computationally hard
11:25 AM	Cyriac Antony, Jacob Antony, Laavanya D and Devi Yamini S
TI.25 AW	
44.05.44	
11:25 AM	Broadcast Graph Is NP-complete
to	Jinghan Xu and Zhiyuan Li
11:50 AM	,
11:50 AM	
to	Computational Geometry
01:05 PM	Chair: TBD
01.001101	
11:50 AM	Maximizing the Maximum Degree in Ordered Nearest Neighbor Graphs
to	Péter Ágoston, Adrian Dumitrescu, Arsenii Sagdeev,
12:15 PM	Karamjeet Singh and Ji Zeng
12.131 1	
40.45.51	
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
12.40 FW	Bhaswar Bhattacharya, Sandip Das, Sk Samim Islam and Saumya Sen
01:05 PM	Bridswar Bridtacharya, Sandip Das, Sk Samin Islam and Sadmya Sch
01.031 101	
1:05 PM	
to	Lunch
02:15 PM	
02:15 PM	Croph Algorithms II
to	Graph Algorithms - II Chair: TBD
03:05 PM	Chair. 155
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
02.40 PW	Sriram Bhyravarapu, Vinod Reddy and Swati Kumari
03:05 PM	Sman Brigiavarapa, viriou Neduy and Swan Kuman
03:05 PM	Graph Theory - III
to	Chair: TBD
03:55 PM	
03:05 PM	Total Domination and Open Packing in Two Subclasses of Triangle-
03:30 DM	free Graphs
03:30 PM	M A Shalu and V K Kirubakaran
00.00 014	Helly Number, Radon Number and Rank in \$\Delta\$-Convexity
03:30 PM	on Graphs
to 03:55 PM	Bijo S. Anand, Arun Anil, Manoj Changat, Revathy S. Nair
US.55 PIVI	and Prasanth G. Narasimha-Shenoi
02.55 DM	
03:55 PM	Too Drook
to 04:25 PM	Tea Break

	Google 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	5 . 5:
7:30 PM	Banquet Dinner
	Day 3 (Saturday, Feb 15, 2025)
	https://meet.google.com/cfm-bqfr-xod
09:15 AM	
to	Algorithms and Complexity - II
10:30 AM	Chair: TBD
00.45.414	
09:15 AM to	Algorithms and hardness results for the \$(3,1)\$-cover problem Amirali Madani, Anil Maheshwari, Babak Miraftab and
09:40 AM	Bodhayan Roy
09:40 AM	Two Step Graph Protection Game
to	Saraswati Girish Nanoti and Aakash Ghosh
10:05 AM	
10:05 AM to	Charging Station Placement for Limited Energy Robots
10:30 AM	Arun Kumar Das
10:30 AM	
to	Tea Break
11:00 AM	
11:00 AM to	Graph Algorithms - III
11:50 AM	Chair: TBD
11.007 (11)	·
11:00 AM	Fast FPT Algorithms for Grundy Number on Dense Graphs
to 11:25 AM	Sina Ghasemi Nezhad, Maryam Moghaddas and Fahad Panolan
11:25 AM	Polynomial time algorithms for Hop domination
to	Karthika D, Muthucumaraswamy R, Sriram Bhyravarapu and Pritesh Kumar
11:50 AM	Filesii Kullidi
11:50 AM	Court Theory IV
to	Graph Theory - IV Chair: TBD
01:05 PM	
11:50 AM	
to	Spectra of eccentricity matrices of product of graphs S. Balamoorthy and T. Kavaskar
12:15 PM	
12:15 PM	
to	Bipartite Domination in Graphs: Complexity and Algorithms
12:40 PM	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