CALDAM 2025 Conference Schedule

February 13 – 15, 2025

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	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	

	Polynomial-time algorithms for PATH COVER on trees and graphs of
03:05 PM	bounded treewidth
to 03:30 PM	Florent Foucaud, Atrayee Majumder, Tobias Mömke and Aida
03.30 F W	Roshany-Tabrizi
03:30 PM	Structural Parameterization of Minus Domination
to	Sangam Balchandar Reddy and Anjeneya Swami Kare
03:55 PM	
03:55 PM	
to	Tea Break
04:25 PM	
04:25 PM	Almonishum and Commission 4
to	Algorithms and Complexity – 1 Chair: TBD
06:05 PM	Citali. 188
04.05 DM	The MACCINED weekless and its smallesticus in legistics
04:25 PM to	The MASEMPR problem and its applications in logistics Anand Subramani, K. Subramani, Piotr Wojciechowski and
04:50 PM	Sangram Kishor Jena
3 1100 1 111	g
6	A sub-quadratic algorithm for the minsum one sink location
04:50 PM	problem on balanced binary tree networks
to 05:15 PM	Jannatul Maowa and Robert Benkoczi
05. 15 FW	
 .	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
03.40 FW	Misra and Geevarghese Philip
05:40 PM	
05.40 FW	Partial Domination in Some Geometric Intersection Graphs
06:05 PM	Madhura Dutta, Anil Maheshwari and Subhas C. Nandy
	CALDAM Business Meeting
06.05 PM	ACSDM Business Meeting Chair: Subir Kumar Ghosh
06.03 PW	CALDAM Business Meeting ACSDM Business Meeting
	O/LED/ IN Business Meeting / CODIN Business Meeting
	Day 2 (Eriday Fab 44 2025)
	Day 2 (Friday, Feb 14, 2025)
	https://meet.google.com/cfm-bqfr-xod
	Invited Talk - II
09:15 AM	Chair: TBD
to	
10:30 AM	Disk Graphs and Transmission Graphs Recent Developments
	Wolfgang Mulzer
10:30 AM	
To	Tea Break
11:00 AM	
11:00 AM	Graph Theory - II
to 11:50 AM	Chair: TBD
TT.50 AW	
11:00 AM	Crossful coloring is computationally hard
to	Graceful coloring is computationally hard Cyriac Antony, Jacob Antony, Laavanya D and Devi Yamini S
11:25 AM	Cyriac Antony, Jacob Antony, Laavanya D and Devi Tallilli S

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11:25 AM	Broadcast Graph Is NP-complete
to 11:50 AM	Jinghan Xu and Zhiyuan Li
I I.50 AIVI	
11:50 AM	Computational Geometry
to 01:05 PM	Chair: TBD
01.03 T W	
11:50 AM	Maximizing the Maximum Degree in Ordered Nearest Neighbor Graphs
to	Péter Ágoston, Adrian Dumitrescu, Arsenii Sagdeev, Karamjeet Singh and Ji Zeng
12:15 PM	Karanijeet Singh and Si Zeng
40:45 DM	Multipeding in Fuelideen Plans
12:15 PM to	Multipacking in Euclidean Plane 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	
02:15 PM	Graph Algorithms - II
to 03:05 PM	Chair: TBD
00.001	
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
00:40 DM	On the personaterized Complexity of Odd Coloring
02:40 PM to	On the parameterized Complexity of Odd Coloring Sriram Bhyravarapu, Vinod Reddy and Swati Kumari
03:05 PM	Chiam Brijiararapa, vinoa redaay aha Chiam raman
03:05 PM	Croph Theory III
to	Graph Theory - III Chair: TBD
03:55 PM	
03:05 PM to	Total Domination and Open Packing in Two Subclasses of Triangle- free Graphs
03:30 PM	M A Shalu and V K Kirubakaran
	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
00.0011	and Prasanth G. Narasimha-Shenoi
03:55 PM	
to 04:25 PM	Tea Break
04.23 PIVI	Invited Talk III
04:25 PM	Chair: TBD
to	
05:40 PM	Convex Geometries determined by betweenness axioms
5:40 PM	Manoj Changat
to	Felicitation of Prof. Manoj Changat on his retirement
6:40 PM	,
7:30 PM	Banquet Dinner

Day 3 (Saturday, Feb 15, 2025)		
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09:15 AM to	Algorithms and Complexity - II	
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	
09:40 AM	Bodhayan Roy	
09:40 AM to	Two Step Graph Protection Game 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	T. D. I	
to 11:00 AM	Tea Break	
11:00 AM	Graph Algorithms - III	
to 11:50 AM	Chair: TBD	
11:00 AM to	Fast FPT Algorithms for Grundy Number on Dense Graphs Sina Ghasemi Nezhad, Maryam Moghaddas and Fahad Panolan	
11:25 AM	, , , , , , , , , , , , , , , , , , ,	
11:25 AM	Polynomial time algorithms for Hop domination Karthika D, Muthucumaraswamy R, Sriram Bhyravarapu and	
to 11:50 AM	Pritesh Kumar	
11:50 AM to	Graph Theory - IV Chair: TBD	
01:05 PM		
11:50 AM	Spectra of eccentricity matrices of product of graphs	
to 12:15 PM	S. Balamoorthy and T. Kavaskar	
12:15 PM		
to 12:40 PM	Bipartite Domination in Graphs: Complexity and Algorithms	
12.40 PIVI	Bhawani Sankar Panda, Subhasmita Joshi and Dalu Jacob	
12:40 PM	Forbidden induced subgraphs in iterative higher order line graphs	
to 01:05 PM	Aryan Sanghi, Devsi Bantva and Sudebkumar Prasant Pal	
01:05 PM	Conclusion	
01:20 PM	Lunch	